<table>
<thead>
<tr>
<th>ACADEMIC _PERIOD_D ESC</th>
<th>COURSE_IDE NTIFICATION</th>
<th>COURSE_NUMBE R</th>
<th>TITLE_SHORT_DESC</th>
<th>SUBJEC T</th>
<th>SUBJECT_DES C</th>
<th>CREDIT_MIN</th>
<th>COURSE_TEXT_NARRATIVE</th>
<th>COURSE_LEVEL</th>
<th>SCHEDULE</th>
<th>SCHEDULE_DE SC</th>
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</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>ME4940</td>
<td>4940</td>
<td>Mech &amp; Mat EGR Intern</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Department internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 2nd year courses as listed in the program guide. Minimum of 30 hours a week for a total of no less than 450 hours of work is required.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3740</td>
<td>3740</td>
<td>Penology &amp; Corrections</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Historical development and critical assessment of penal institutions. Field visits to selected institutions.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7370</td>
<td>7370</td>
<td>Medical Devices IHE Industrial &amp; Hum Fac Engr</td>
<td>IHE</td>
<td>3</td>
<td>For students who are interested in acquiring a broad-based knowledge in the human factors of medical instrumentation and devices. Approaches the design and implementation of medical technology from the perspective of patient safety and product usability. Topics to be covered will range from design guideline considerations, tools for usability analysis, and emerging trends and technologies.&lt;b&gt; Department Managed Prerequisite(s): Graduate level IHE 6300 Minimum Grade of D or Undergraduate level ISE 4300 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4480</td>
<td>4480</td>
<td>Gender Violence Am Pol</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Examines gender violence in the United States. Considers the range of violence, its sources, and solutions. Topics include domestic violence, rape, human trafficking, reproductive rights, and pornography. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS9590</td>
<td>9590</td>
<td>Process Medical Images</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Digital image processing and its application to medical images. Topics include image display, compression, filtering, spatial versus frequency domain techniques, edge detection, morphological operations, registration and classification.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3130</td>
<td>3130</td>
<td>Plant Biology BIO Biology</td>
<td>BIO</td>
<td>5</td>
<td>Overview of plant biology, including algae, fungi, mosses and vascular plants. Basic plant structure and metabolism. Taxonomy of plants and representative plant families. Labs include demonstrations, experimental manipulations of plants, aspects of structure and function, and outdoor labs.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BIO6480</td>
<td>6480</td>
<td>Advanced Cell Techniques</td>
<td>BIO</td>
<td>Biology</td>
<td>4</td>
<td>Analysis of cellular proteins will be the major focus. Students will have first-hand experience manipulating human cells in culture, extracting cellular proteins, transfecting cells, and performing immunoblotting and immunofluorescence techniques.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ML2030</td>
<td>2030</td>
<td>Spanish Culture ML Modern Languages</td>
<td>ML</td>
<td>3</td>
<td>Introduction to Spain's history, cultures (Spanish as well as non-Spanish), and customs.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ML3550</td>
<td>3550</td>
<td>Intl Service Learning ML Modern Languages</td>
<td>ML</td>
<td>3</td>
<td>Students engage in an international service learning project in the context of an Ambassador Program.&lt;b&gt; Department Managed Prerequisite(s): Department Managed Prerequisite(s): Graduate level ARA 1010 Minimum Grade of D or Undergraduate level CHI 1011 Minimum Grade of D or Undergraduate level FR 1010 Minimum Grade of D or Undergraduate level GER 1010 Minimum Grade of D or Undergraduate level ITA 1001 Minimum Grade of D or Undergraduate level JPN 1010 Minimum Grade of D or Undergraduate level RUS 1010 Minimum Grade of D or Undergraduate level SPN 1010 Minimum Grade of D&lt;/b&gt;</td>
<td>UG</td>
<td>PR</td>
<td>Practicum</td>
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<tr>
<td>Spring 2021</td>
<td>ENG3610</td>
<td>3610</td>
<td>Technical Writing ENG English</td>
<td>ENG</td>
<td>3</td>
<td>Concepts and skills used in scientific and technical writing.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8720</td>
<td>8720</td>
<td>Work Motivation PSY Psychology</td>
<td>PSY</td>
<td>2</td>
<td>Work motivation theories are examined in terms of their empirical support and practical usefulness. Factors and processes influencing effort, intentions, performance, and other job behaviors are discussed.&lt;b&gt; Department Managed Prerequisite(s): Graduate level PSY 8620 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISM8500</td>
<td>8500</td>
<td>Special Topics ISM Interdis. Appl. Sci. and Math</td>
<td>ISM</td>
<td>1</td>
<td>Selected topics in interdisciplinary applied sciences and mathematics. Content developed by instructor is to be at a level of rigor appropriate for a Ph.D. level student. The student is expected to be able to demonstrate via work products a significant increase in understanding of the special topic.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>STT6960</td>
<td>6960</td>
<td>Topics in Stat and Prob STT Statistics</td>
<td>STT</td>
<td>1</td>
<td>Topics in statistics and probability.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DOS9000</td>
<td>9000</td>
<td>Colloquium in Org Studs DOS Doctor Org Studies</td>
<td>DOS</td>
<td>1</td>
<td>Doctoral level seminar examining and synthesizing assumptions, concepts, theories, and methodologies that inform research in organizations.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4560</td>
<td>4560</td>
<td>ILA Capstone</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Integration and pedagogy of reading, writing, listening, speaking, viewing, and visually representing with an emphasis on literacy response and analysis. Integrated Writing course.&lt;br&gt;Department Managed Prerequisite(s): (Undergraduate level ENG 3520 Minimum Grade of C and Undergraduate level ENG 3530 Minimum Grade of C and Undergraduate level ENG 3560 Minimum Grade of C and Undergraduate level ENG 3570 Minimum Grade of C)&lt;br&gt;&lt;br&gt;G。&lt;br&gt;UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6980</td>
<td>6980</td>
<td>Special Problems in ME</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>1</td>
<td>Special topics in Mechanical Engineering or Materials Science and Engineering. Titles vary.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS2610</td>
<td>2610</td>
<td>French Dict</td>
<td>MUS</td>
<td>Music</td>
<td>2</td>
<td>For students of singing. Application of the International Phonetic Alphabet to French. Includes intensive readings of song lyrics.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY1010</td>
<td>1010</td>
<td>Undergrad Phy Seminar II</td>
<td>PHY</td>
<td>Physics</td>
<td>1</td>
<td>Provides undergraduate physics majors with an introduction to the course load, faculty, resources, and expectations associated with the Wright State University undergraduate physics program. Continuation of PHY 1000.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0210</td>
<td>0210</td>
<td>Writing - Level 2</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Writing for low-intermediate/intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME7136L</td>
<td>7136L</td>
<td>Instrumen Radiation Meas Lab</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>0</td>
<td>Required laborator for BME 7136.</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX8140</td>
<td>8140</td>
<td>Human Studies Research</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>All research projects that involve human subjects require review and approval at the institutional level for both regulations covering human subjects research and/or regulations under HIPAA (Health Insurance Portability and Accessibility Act). A well-crafted research proposal makes completion of the review process at each institution easier. In this class we will develop a petition, complete CITI training, and engage in dialogue on the topic.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT4780</td>
<td>4780</td>
<td>Honors/Ind Study Market</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
<td>The course will consist of research or some other form of marketing project. The course is offered with the prior-approval of the department chair and the supervising marketing faculty member.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IB4810</td>
<td>4810</td>
<td>Intl Business Practicum</td>
<td>IB</td>
<td>International Business</td>
<td>3</td>
<td>The purpose of the course is for students to gain applied experience in a cross-cultural context to refine skills that can be used in the conduct of international business. Must be enrolled in one of the following Degrees: BS in Business or International Business Minor.</td>
<td>UG</td>
<td>PR</td>
<td>Practicum</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4810</td>
<td>4810</td>
<td>Full-Time CPT in EE</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Practical work experience in undergraduate level electrical engineering.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>COM4320</td>
<td>4320</td>
<td>Race Class Gender Comm</td>
<td>COM</td>
<td>Communication</td>
<td>3</td>
<td>Theoretical and pragmatic consideration of the impact of race, class, and gender on the communication process within society.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECO5180</td>
<td>5180</td>
<td>Eco Applica Internet II</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>2</td>
<td>This course is a continuation of Economic Applications Using the Internet I. Like 5170, this course teaches basic economic concepts/skills to K-12 teachers and how they may be applied to the classroom using resources available on the Internet. This course is an excellent foundation for teachers with little economic knowledge that desiring greater expertise. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1000</td>
<td>1000</td>
<td>Special Topics</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Activity course for a variety of content areas</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4010</td>
<td>4010</td>
<td>Topics Earth &amp; Env Sci</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>0.5</td>
<td>Advanced topics of current interest in the earth and environmental sciences. Topics vary but are expected to be appropriate for undergraduate students at the junior or senior level. May be taken for a letter grade or pass/unsatisfactory.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH6570</td>
<td>6570</td>
<td>Combinatorics and Graphs</td>
<td>MTH</td>
<td>Mathematics</td>
<td>4</td>
<td>Topics include: permutations, combinatorics, generating functions, recurrence relations, and Polya theory of counting; methods, results, and algorithms of graph theory, with emphasis on graphs as mathematical models applicable to organizational and industrial situations.&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level MTH 2310 Minimum Grade of D and Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D)&lt;br&gt;&lt;br&gt;G。&lt;br&gt;GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BMS7270</td>
<td>7270</td>
<td>Proteins and Enzymes</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Also listed as BMB 7270. Current concepts in protein structure and function and the mechanism of enzymatic catalysis.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN2320</td>
<td>2320</td>
<td>Intermediate Jazz II</td>
<td>DAN</td>
<td>Dance</td>
<td>2</td>
<td>Second-year intermediate jazz dance technique. Focus on technical diversity, musicality, artistry, and performance and on increasing body strength, flexibility, and kinesthetic awareness.</td>
<td>UG</td>
<td>ST</td>
<td>Studio</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Notes</td>
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<tr>
<td>DEV0970</td>
<td>4</td>
<td>Basic Algebra</td>
<td>Developmental Education</td>
<td>Review of arithmetic and basic algebra concepts and skills including operations involving signed numbers and fractions, factoring, polynomials, rational expressions and equations, exponents, solving systems of equations, radicals, quadratic equations, equations involving radicals or rational exponents, linear equations, and applications. This course has a fee that is non-refundable once the term begins.</td>
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<tr>
<td>LDR7070</td>
<td>3</td>
<td>Teamwork &amp; Collaboration</td>
<td>Leadership</td>
<td>This course focuses on theory, research, and current trends related to group dynamics and communication processes used to build organizational effectiveness in a diverse, multicultural workplace.</td>
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<tr>
<td>MUA7100</td>
<td>1</td>
<td>Applied Music</td>
<td>Music: Applied Music</td>
<td>Open only to Graduate Students. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
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<tr>
<td>ANT5120L</td>
<td>0.5</td>
<td>Human ANT &amp; Phys II Lab</td>
<td>Anatomy</td>
<td>Required Laboratory for ANT 5120. Laboratory exercises use human donors.</td>
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<tr>
<td>SOC4670</td>
<td>3</td>
<td>Disability-Pwr, Pol, Prv</td>
<td>Sociology</td>
<td>Examines disability from a sociological perspective and provides critical engagement with contemporary issues and debates in disability politics.</td>
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<tr>
<td>STT5860</td>
<td>3</td>
<td>Ind Read Stat and Prob</td>
<td>Statistics</td>
<td>Independent reading in statistics and probability.</td>
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<tr>
<td>URS6270</td>
<td>3</td>
<td>Public Policy Analysis</td>
<td>Urban Affairs</td>
<td>Study of the policy development process and its relationship to past and current urban issues. Focuses on a current urban issue through discussion, reading, and research.</td>
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<tr>
<td>CEG7060</td>
<td>3</td>
<td>Advanced Robotics</td>
<td>Computer Engineering</td>
<td>Detailed study of the dynamics and control of robotic systems and robot programming languages and systems. Material covered includes rigid-body dynamics, linear, nonlinear, adaptive, and force control of manipulators, and robot programming languages. Sensors, low-level and higher level vision techniques, task planning including obstacle avoidance and artificial intelligence and expert systems as applied to robotic systems.</td>
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<tr>
<td>BIO4600</td>
<td>4</td>
<td>Population Genetics</td>
<td>Biology</td>
<td>Examines the causes of genetic differences within and among species and how molecular biology techniques can be used to identify these differences. Emphasizes human genetics, anthropology, ecology, and conservation implications.</td>
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<tr>
<td>ART6010</td>
<td>1</td>
<td>Ind Study in Art History</td>
<td>Art</td>
<td>Intensive individually directed work in art history with faculty consultation and supervision.</td>
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<tr>
<td>ENG7410</td>
<td>3</td>
<td>Seminar: Comp Pedagogy</td>
<td>English</td>
<td>Reading, research, and discussion on topics dealing with theories and practices of teaching composition, such as historical contexts of composition programs, design of assignments, and teaching materials.</td>
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<tr>
<td>REL5300</td>
<td>3</td>
<td>Topics in Islam</td>
<td>Religion</td>
<td>Topics on Islamic religion and religious practices.</td>
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<tr>
<td>MTH1340</td>
<td>5</td>
<td>Precalculus</td>
<td>Mathematics</td>
<td>Functions and graphs, polynomial and rational functions, trigonometric and inverse trigonometric functions, conics, systems of equations, exponential and logarithmic functions, geometric series, binomial theorem.</td>
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<tr>
<td>CEG6326</td>
<td>3</td>
<td>IC Hardware Security and Trust</td>
<td>Computer Engineering</td>
<td>Students learn to analyze hardware security/trust and be able to implement various countermeasures to improve trust for hardware IC systems. Topics include IC design flow/lifecycle, trust issues at each stage of the IC lifecycle, attack methodologies that threaten HW IC systems, countermeasures to improve trust for HW IC systems, and improving Trust for both ASIC and FPGA based systems.</td>
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<tr>
<td>STT7860</td>
<td>1</td>
<td>Ind Read Stat and Prob</td>
<td>Statistics</td>
<td>Independent reading in statistics and probability.</td>
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<tr>
<td>Course Code</td>
<td>Section</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Degree</td>
<td>Type</td>
<td>Notes</td>
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<tr>
<td>ANT2100</td>
<td>2100</td>
<td>Human Anatomy &amp; Phys I</td>
<td>ANT Anatomy</td>
<td>4</td>
<td>Introductory survey of the anatomy and physiology of the human body with an emphasis on clinical applications. Anatomical terminology, biochemistry, cells, tissues, integumentary system, skeletal system and, articulations, nervous system, special senses and muscular system. Laboratory exercises use human donors.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>NUR7313</td>
<td>7313</td>
<td>NUR Nursing</td>
<td>NUR Nursing</td>
<td>5</td>
<td>Focusing on creating safe and quality health care, students develop knowledge and skills in leadership, management, application, synthesis and evaluation of evidence to create healthy work environments.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>MTH2300</td>
<td>2300</td>
<td>Calculus I</td>
<td>MTH Mathematics</td>
<td>4</td>
<td>Examines limits, the derivative, differentiation, applications of the derivative, antiderivatives, Riemann sums, the definite integral, and the fundamental theorem of calculus.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>ANT5520</td>
<td>5520</td>
<td>Biomedical Experimental Design</td>
<td>ANT Anatomy</td>
<td>2</td>
<td>There will be two primary assignments in this course: 1) the experimental design and 2) the oral presentation. As such, the focus of the weekly meetings will be to aid student’s understanding of how to develop well written rationale, experimental design, predicted results and conclusions, and how to give effective oral presentations. In-class discussions will focus on elements of good experimental design, reinforcement of scientific writing, and elements of effective oral presentations in an effort to establish best practices associated with experimental design and oral presentation. These discussions will be supplemented with peer and instructor feedback on initial drafts. These tools will facilitate students completing their assignments effectively and in a timely manner.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>KNH18020B</td>
<td>1802B</td>
<td>Winter Camping</td>
<td>KNH Anatomy &amp;</td>
<td>1</td>
<td>Fundamental skills and knowledge of Winter Camping. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>ED6890</td>
<td>6890</td>
<td>AYA/MA Capstone Research</td>
<td>ED Education</td>
<td>3</td>
<td>Initiation of a research project as a reflective investigation and progressive problem solving effort by individuals or groups to improve the quality of education in an AYA/MA educational environment.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>ART5690</td>
<td>5690</td>
<td>Printmaking: Screenprinting</td>
<td>ART Art</td>
<td>3</td>
<td>Development of personalized concepts and individual aesthetic expression in printmaking with emphasis in the area of screenprinting. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>NUR4870</td>
<td>4870</td>
<td>Communities Toward Hlth</td>
<td>NUR Nursing</td>
<td>3</td>
<td>Integrates population-based concepts to assess populations. Emphasizes all levels of prevention to promote health of individuals, families, and groups; including lifestyle and genetic factors impacting population health.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PLS4210</td>
<td>4210</td>
<td>Am Constitutional Pols</td>
<td>PLS Political</td>
<td>3</td>
<td>The creation of the US Constitution and the ongoing struggle in American legal politics over its basic meaning.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>ED6600</td>
<td>6600</td>
<td>Teach in the Amer Ed Sys</td>
<td>ED Education</td>
<td>3</td>
<td>Foundational analysis of the relationship between public education in a democracy and the critical social issues and forces impacting renewal efforts.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY4070</td>
<td>4070</td>
<td>Honors Research Project</td>
<td>PSY Psychology</td>
<td>1</td>
<td>Original problems for investigation leading to a psychology department honors thesis.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>URS7020</td>
<td>7020</td>
<td>Planning and Evaluation</td>
<td>URS Urban Affairs</td>
<td>3</td>
<td>Addresses the theory and practice of strategic thinking, planning, and management in public and nonprofit organizations and familiarizes students with the major concepts, skills and approaches to program evaluation.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>EES4190</td>
<td>4190</td>
<td>Paleobiology</td>
<td>EES Earth &amp; Environment Sciences</td>
<td>4</td>
<td>Origin of higher taxa, speciation, genealogical relatedness of all life, transformation of species, and macroevolutionary trends, as well as the response over geological time of Earth's biota to environmental, ecological, and geographical changes. Role of fossil organisms in reconstructing past environments and global paleogeography. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level EES 2550 Minimum Grade of D&lt;/b&gt;</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>HST2120</td>
<td>2120</td>
<td>American Hist Since 1877</td>
<td>HST History</td>
<td>3</td>
<td>Thematic survey of events, forces, groups, and individuals that contributed to and helped to shape an American civilization on the North American continent. 1877 to the present.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>WGS2000</td>
<td>2000</td>
<td>Intro Women &amp; Gender</td>
<td>WGS Women, Gender, and Sexuality</td>
<td>3</td>
<td>Introduces students to feminist thought and activism. Explores the importance of gender as a category of analysis to understand social, cultural, political, and economic forces. Credit will not be given for WGS 2000 to students who have completed WMS 2000. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY6060</td>
<td>6060</td>
<td>Independent Research</td>
<td>PSY Psychology</td>
<td>1</td>
<td>Original problems for investigation. Graded pass/unsatisfactory.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>MP2310</td>
<td>2310</td>
<td>Hist of Motion Picture I</td>
<td>MP Motion Picture</td>
<td>3</td>
<td>Historical development of the art of the film from 19th-century scientific experiments through the silent era and the advent of sound to mid 20th century. Examination of technical, social, economic, and cultural factors that have shaped motion pictures. Integrated Writing course.</td>
<td>UG</td>
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<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Degree</td>
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<tr>
<td>NEU2010</td>
<td>Intro Neuroscience Research</td>
<td>NEU</td>
<td>2</td>
<td>Introduction to the primary neuroscience literature. Students will learn how to search for articles and begin to analyze the different components of them.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>GER4810</td>
<td>Independent Rdg Adv Stu</td>
<td>GER</td>
<td>3</td>
<td>Topics vary; Department Managed Prerequisite(s): Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D; &lt;br&gt;Must have at least a 2.0 GPA.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>PLS5230</td>
<td>Government of Ohio</td>
<td>PLS</td>
<td>3</td>
<td>Organization and functions of the government of Ohio with special attention to development, social structure, legal status, electoral processes, and fiscal problems.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>ED2650</td>
<td>Fld Exp I: Intro Ed Prof</td>
<td>ED</td>
<td>1</td>
<td>Introduces students to the educational process through participation in a classroom and through an examination of classroom dynamics within a natural setting. Must have at least a 2.0 GPA.</td>
<td>UG</td>
<td>PR</td>
<td>Practicum</td>
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<tr>
<td>REL5420</td>
<td>Japanese Religions</td>
<td>REL</td>
<td>3</td>
<td>Historical and contemporary survey of religious life in Japan. Primary focus on Shinto, both early Shinto and later nationalistic Shinto, the varieties of Japanese Buddhism, and Japanese new religions. Topics include: religious doctrine, faith and devotion, self-cultivation and enlightenment, monasticism, and religion and the state.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>HST7650</td>
<td>Museum Admin Collections</td>
<td>HST</td>
<td>3</td>
<td>Introduction to museums and their management and to collections theory and practice. Includes collections policies; accessioning, deaccessioning and loans; management, care, and the conservation of museum collections; and collections use in exhibition and education. Hands-on experience working with actual objects.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>EDS4800</td>
<td>Internship Phase I</td>
<td>EDS</td>
<td>1</td>
<td>Internship in a middle childhood school for supervised field experience in inclusive setting in one of the two licensure content areas while focusing on professionalism, student assessment, teaming, and collaboration. Cohort meetings required.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
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<tr>
<td>PSY4940</td>
<td>Animal Behavior</td>
<td>PSY</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on animal behavior. Topics will include evolution, natural and sexual selection, and mating systems. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>ISE4150</td>
<td>Adv Prob and Stats Engineers</td>
<td>ISE</td>
<td>3</td>
<td>Topics in probability and statistics with an emphasis on solving engineering problems. Following this course, students will be able to analyze data, design and analyze statistically valid experiments, and draw statistically valid conclusions. Topics include probability, sampling distributions, probability distributions, confidence intervals, hypothesis testing, regression and correlation, analysis of variance (ANOVA), design of experiments, statistical process control, classification, and computer software for basic statistical analysis.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>LEP0030</td>
<td>Grammar - Pre-LEAP</td>
<td>LEP</td>
<td>0</td>
<td>Grammar for low-beginning ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>CHM5510R</td>
<td>Physical Chemistry Lab I Rec</td>
<td>CHM</td>
<td>0</td>
<td>Required recitation for CHM 5510L.</td>
<td>GR</td>
<td>RE</td>
<td>Recitation</td>
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<tr>
<td>EDL9990</td>
<td>Thesis</td>
<td>EDL</td>
<td>1</td>
<td>Research for thesis in Educational Specialist Program.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>ATH5030</td>
<td>Peoples/Cult United Stat</td>
<td>ATH</td>
<td>3</td>
<td>Focuses on the anthropological approaches to the study of culture in the United States. Confronts how to both recognize that your own culture is but one out of many, and how to systematically study the underpinnings of differences within one's own culture.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>ASM7772</td>
<td>Fund Aerospace Med II</td>
<td>ASM</td>
<td>2</td>
<td>Fundamentals of Aerospace Medicine II is the second in a series of three courses that provide a foundation of basic principles and concepts applicable to the multiple realms encountered in the field of aerospace medicine. The third and final course in the series will build upon the knowledge gained in this second exposure and further expand and progressively integrate knowledge attained.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>PHL2500</td>
<td>Professional Ethics</td>
<td>PHL</td>
<td>3</td>
<td>Introduction to the theory and practice of professional ethics in its global, economic, environmental, and social context.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>DEV0270</td>
<td>Basic &amp; Intrmd Algebra</td>
<td>DEV</td>
<td>4</td>
<td>Review of arithmetic and basic algebra concepts and skills including operations involving signed numbers and fractions, factoring, polynomials, rational expressions and equations, exponents, radicals, quadratic equations, equations involving radicals or rational exponents, linear equations, and applications. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY4340</td>
<td>Clinical Sexuality</td>
<td>PSY</td>
<td>3</td>
<td>The ultimate end goal of this course is to enhance your personal sexual health by increasing your sexual literacy as well as your comfort and confidence as a sexual being. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>EDL8950</td>
<td>Principal Practicum</td>
<td>EDL</td>
<td>3</td>
<td>Provides experience in school leadership and administration at the building level. Candidates perform administrative tasks under the supervision of a licensed school building administrator.</td>
<td>GR</td>
<td>IN</td>
<td>Internship</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Section</td>
<td>Instructor</td>
<td>Notes</td>
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<tr>
<td>MBA5300</td>
<td>5300</td>
<td>Survey of Finance</td>
<td>MBA</td>
<td>MBA</td>
<td>3</td>
<td>Theories, concepts, and techniques of financial management. Designed for student with no previous course work in financial management and for those with a need to review the basic techniques.</td>
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<tr>
<td>HST3700</td>
<td>3700</td>
<td>Af-Am History, 1619-Pres</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Survey of black people in American society from colonial slave trade to the present.</td>
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<tr>
<td>ATH3910</td>
<td>3910</td>
<td>Internship: Anthropology</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>Directed and supervised experience in an employment setting relevant to one of the major subdisciplines in anthropology. Must be prearranged with student's faculty advisor, a minimum GPA of 3.0, and Junior or Senior standing required.</td>
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<tr>
<td>ENG4200</td>
<td>4200</td>
<td>Studies in British Lit</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Intensive study of British literary history and/or the work of individual British writers. Intended to develop an understanding of literature within the contexts of the author's life, literary production, and historical background. Integrated Writing course.</td>
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<tr>
<td>EDL8580</td>
<td>8580</td>
<td>Advanced Ed Measurement</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>3</td>
<td>School district level interpretation of assessments, evaluation, accountability measures, standardization, validation, reliability, item analysis, norm setting, criterion referencing, standardized tests, and the development of district level long-range improvement and accountability systems.</td>
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<tr>
<td>CTE4100</td>
<td>4100</td>
<td>Learning Environment</td>
<td>CTE</td>
<td>Career and Technical Education</td>
<td>3</td>
<td>Examination, discussion, application and reporting of best practices for creating an environment conducive to learning and achievement.</td>
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<tr>
<td>EC4090</td>
<td>4090</td>
<td>Intro. to Econometrics</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>How to use statistical techniques to manage and analyze data, formulation and estimation of econometric models, including single variable and multiple variable regression techniques, and issues relating to inference. STATA software is used throughout the semester.</td>
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<tr>
<td>TH2150</td>
<td>2150</td>
<td>Singing Mus Theatre III</td>
<td>TH</td>
<td>Theatre</td>
<td>1</td>
<td>Private singing lessons for acting, theatre studies and dance majors only.</td>
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<tr>
<td>CS5170</td>
<td>5170</td>
<td>Mobile App Development</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Focuses on projects to progressively demonstrate concepts and practical approaches to developing software for mobile devices focusing on iOS devices including any of iPhone, iPod Touch, or iPad. The course covers application design, Apple's core technologies, animation, image processing, video processing, audio, 3D graphics, and built in sensors.</td>
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<td>ATH4400</td>
<td>4400</td>
<td>Sem Woodland Archaeology</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>Intensive review of the prehistoric Woodland period (600 B.C. - A.D. 900) of eastern North America. Covers major regional cultures such as Adena and Hopewell, and explores such topics as social and political organization, site architecture, mortuary customs, and exchange systems.</td>
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<tr>
<td>CS1160L</td>
<td>1160L</td>
<td>Intro to Comp Prog Lab</td>
<td>CS</td>
<td>Computer Science</td>
<td>0</td>
<td>Required laboratory for CS 1160.</td>
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<tr>
<td>URS4940</td>
<td>4940</td>
<td>Youth &amp; Comm Engagement</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Examines the pedagogies that encourage youth in developing the capacity to participate responsibly and effectively in the civic life of their communities. Centered on a field-based learning experience.</td>
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<tr>
<td>PSY4440</td>
<td>4440</td>
<td>Work Stress Capstone</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on work stress. Integrated Writing course.</td>
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<tr>
<td>AES2240</td>
<td>2240</td>
<td>FTP Leadership Lab</td>
<td>AES</td>
<td>Aerospace Studies</td>
<td>0</td>
<td>Preparation for Field Training program. Training is cadet-led. Requires participation in two weekly physical training sessions.</td>
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<td>MBA7300</td>
<td>7300</td>
<td>Fin Analysis &amp; Decision</td>
<td>MBA</td>
<td>MBA</td>
<td>3</td>
<td>Application of finance concepts theories, and techniques of financial management. Emphasis on case problems and decision making.</td>
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<td>OIS2170</td>
<td>2170</td>
<td>Integ Office Software</td>
<td>OIS</td>
<td>Office Information Systems</td>
<td>3</td>
<td>Study of computer skills by utilizing and integrating Microsoft Office software. Students will use Microsoft Office software to complete discipline specific projects.</td>
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<tr>
<td>ED6200</td>
<td>6200</td>
<td>Practicum: Multi-Age</td>
<td>ED</td>
<td>Education</td>
<td>2</td>
<td>Educators with prior teaching license(s), under the direct supervision of an experienced classroom teacher, are assigned to a school for field experience in grades pk-12 and their concentration area(s).</td>
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<tr>
<td>EES6750</td>
<td>6750</td>
<td>Biological Safety</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>2</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Department</td>
<td>Type</td>
<td>Schedule</td>
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<tr>
<td>REL5510</td>
<td>5510</td>
<td>Comp. Asian Mysticism</td>
<td>Examination of the religious phenomenon and category of mysticism in various Asian traditions including Daoism, Hinduism, and Buddhism (both early Indian Buddhism and Japanese Zen). Particular topics include: the nature of mystical and religious experience in general; the relationship between religious experience and other aspects of religions, such as religious practice, doctrine, and language; and the question of the universality of mystical experience.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>SAA6670</td>
<td>6670</td>
<td>Career Dev Adv/Assess</td>
<td>Focus of the course will be on developing the helping relationship, career planning strategies, applying career development models and theories to cases, and understanding how different types of career assessments aid or hinder the career development process.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>REL3610</td>
<td>3610</td>
<td>Religion in America</td>
<td>Historical exploration of the variety of forms of religious expression in America and the role of religion in American life.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>EE6440L</td>
<td>6440L</td>
<td>Electronic Integ Lab</td>
<td>Laboratory supporting EE 6440. Students will experience hands on learning in lab environment.</td>
<td>GR LB L</td>
<td>Lab</td>
<td>Spring 2021</td>
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<tr>
<td>ACC7460</td>
<td>7460</td>
<td>Fin Statement Analysis</td>
<td>Financial Statement presentations are analyzed from an accounting perspective with heavy emphasis on footnote analysis and the impact on the financial statements.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>CHM4465L</td>
<td>4650L</td>
<td>Physical Polymer Chem Lab</td>
<td>Required laboratory for CHM 4650.</td>
<td>GR LB L</td>
<td>Lab</td>
<td>Spring 2021</td>
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<tr>
<td>EC4360</td>
<td>4360</td>
<td>Industrial Organization</td>
<td>Analyzes business behavior under various industry structures and government policies. Emphasizes actual case studies.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>CHI1010</td>
<td>1010</td>
<td>Beginning Chinese I</td>
<td>Communicative introduction to Chinese. Study of the vocabulary and structure of the Chinese language; practice in speaking, listening, reading, and writing.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>SPN2020</td>
<td>2020</td>
<td>Intermediate Spanish II</td>
<td>Grammar review, reading, and discussion of selected texts with practice in speaking and writing the language. Taught in Spanish.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>ED6670</td>
<td>6670</td>
<td>MA: World Lang: C&amp;M I</td>
<td>Presents world language curriculum and materials with emphasis on ACTFL Standards in order to plan and implement effective lessons and activities focused on Pk-12 second language acquisition.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>CHM4490</td>
<td>4900</td>
<td>Critical Lit Analysis</td>
<td>Development of critical thinking skills for analysis of current chemical and general scientific literature.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>ME3360</td>
<td>3360</td>
<td>Heat Transfer</td>
<td>Study of the movement of energy due to a temperature difference. The three modes of heat transfer are investigated: conduction, convection, and radiation. Detailed look at heat equation.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>GES5120</td>
<td>5120</td>
<td>German Conversation II</td>
<td>Emphasis on the culture of the German-speaking world.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>CLS1600</td>
<td>1600</td>
<td>Intro Classical Myth</td>
<td>A survey of the myths and legends of ancient Greece and Rome which are an important part of the Western literary and cultural tradition. Credit will not be given for CLS 1600 Introduction to Classical Mythology for students who have already successfully completed CLS 2600.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>HEA9240</td>
<td>9240</td>
<td>Infus Sys Thinking IH ED Admin</td>
<td>Introduction to administrative, organizational, and leadership theory and practice in the two-year and four-year college and university. Participants explore historical, current, and future plans for administration in higher education.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>ECE3100</td>
<td>3100</td>
<td>Reading Methods &amp; Mat</td>
<td>Formal reading instruction in early childhood classrooms; strategies and materials for teaching reading to young children based on IVA and Ohio Content Standards.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>PSY2560</td>
<td>2560</td>
<td>Psychology of Tango</td>
<td>Explores inquiries into Argentine tango from the perspective of psychological science, while providing dance instruction intended to complement those inquiries.</td>
<td>GR LL L</td>
<td>Lecture/L</td>
<td>Spring 2021</td>
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<tr>
<td>KNIH1020B</td>
<td>1020B</td>
<td>Aerobic Conditioning</td>
<td>Fundamental skills and knowledge of Aerobic Conditioning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>GR LB L</td>
<td>Lab</td>
<td>Spring 2021</td>
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<tr>
<td>LEP0010</td>
<td>0010</td>
<td>Writing - Pre-LEAP</td>
<td>Writing for low-beginning ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<tr>
<td>KNIH1270B</td>
<td>1270B</td>
<td>H2O Kickboxing</td>
<td>Fundamental skills and knowledge of H2O Kickboxing. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>GR LB L</td>
<td>Lab</td>
<td>Spring 2021</td>
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<tr>
<td>AVI22001</td>
<td>2001</td>
<td>Priv Pilot Grd School</td>
<td>Conduct flight training in a single engine land airplane. Preparation for computer-based private pilot knowledge test.</td>
<td>GR LE L</td>
<td>Lecture</td>
<td>Spring 2021</td>
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<td>MIL5670</td>
<td>3</td>
<td>Philosophy of Mind</td>
<td>PHL</td>
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<td>PPH7120</td>
<td>3</td>
<td>Qualitative Methods in P</td>
<td>PPH</td>
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<td>BMS7310</td>
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<td>Advanced Ergonomics</td>
<td>BMS</td>
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<td>ED6930</td>
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<td>Cont Sem: Ergonomics</td>
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<td>HST7130</td>
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<td>Seminar US Foreign Rel</td>
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<td>IT2230</td>
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<td>Web Integration</td>
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<td>WGS4900</td>
<td>3</td>
<td>Women, Gender, and Sexuality</td>
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<td>Lecture</td>
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<td>CEG7040L</td>
<td>3</td>
<td>VLSI Testing Design Lab</td>
<td>CEG</td>
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<tr>
<td>ECE7450</td>
<td>3</td>
<td>Comp Theories of Ch Dev</td>
<td>ECE</td>
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<td>ENG6640</td>
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<td>Topics/Tech/Prof Writing</td>
<td>ENG</td>
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<td>MIL4020</td>
<td>3</td>
<td>Ldrship in Complex World</td>
<td>MIL</td>
<td>Lecture</td>
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<td>PSY8350</td>
<td>3</td>
<td>Aviation Psychology</td>
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<td>REL5780</td>
<td>3</td>
<td>Apocalypse of John</td>
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<td>NUR7731</td>
<td>3</td>
<td>Adv New/Infant Pharm</td>
<td>NUR</td>
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</table>

**Course Descriptions**

- **PHL5670 Philosophy of Mind**: Studies central issues in the philosophy of mind including mind and brain, identity theory, nature of consciousness and qualia, intentionality, agency and other special topics.
- **PPH7120 Qualitative Methods in P**: This is an overview of qualitative research methods commonly used in public health. Students will gain experience in qualitative research process: problem definition, instrument development, data collection, data analysis (qualitative analysis software), interpretation and write-up of findings. Students will develop a critical perspective and be able to evaluate the methodological rigor of qualitative studies by recognizing their strengths and weaknesses, appropriate and inappropriate uses.
- **BMS7310 Advanced Ergonomics**: Design of workstations and hand-tools using Physiology and Biomechanics approach. Ergonomic analysis of assembly, machining and manual material handling operations. Practical solutions and real world case studies to improve productivity and reduce Workers Compensation costs.
- **ED6930 Cont Sem: AYA/Int Soc St**: Seminar accompanying Adolescent and Young Adult Internship focusing on pedagogical content knowledge in Integrated Social Studies, assessment of the National Council for the Social Studies (NCSS) standards and the completion of the CEHS professional portfolio.
- **HST7130 Seminar US Foreign Rel**: Examines history of United States public and private relations with the rest of the world from the mid-18th century to the present. Topics vary, and may include aspects of early republic, imperial, Cold War, and contemporary U.S. history.
- **IT2230 Web Integration**: Integration of the web design process into a usable product. Overview of how web productions multimedia and interactivity interact with the Internet and databases.
- **WGS4900 Women, Gender, and Sexuality**: Coordinates internship experience with in-class coursework to provide advanced practice and supervision in the field of women, gender, and sexuality studies. Site selected with guidance of instructor prior to course registration. Service Learning Intensive. Department Managed Prerequisite(s): Undergraduate level WGS 3600 Minimum Grade of C or Graduate level ENG 5610 Minimum Grade of D.
- **CEG7040L VLSI Testing Design Lab**: Required laboratory for EE 7540. Department Managed Prerequisite(s): Undergraduate level EE 4540 Minimum Grade of D and Undergraduate level EE 4540L Minimum Grade of D or Graduate level EE 6540 Minimum Grade of D and Graduate level EE 6540L Minimum Grade of D. Offered under CR/NC grading system only.
- **ECE7450 Comp Theories of Ch Dev**: Comparative study of philosophies of child development and the practical application of these theories in ECE classrooms.
- **ENG6640 Topics/Tech/Prof Writing**: Courses, seminars, or workshops in specialized topics relating to business, technical, and professional writing. Department Managed Prerequisite(s): Undergraduate level ENG 3610 Minimum Grade of D or Graduate level ENG 5610 Minimum Grade of D or Graduate level ENG 5610L Minimum Grade of D.
- **MIL4020 Ldrship in Complex World**: Study of history, issues and critical thinking in military operations in the complex world. Examines differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. Examines aspects of interacting with non-government organizations, civilians on battlefield, and host nation support. Course prepares for BOLC and first unit assignment.
- **PTX8210 Med. Bio. Defense**: This course will provide an in-depth understanding of biological warfare threat agent pathogenesis, toxicology, and medical intervention. The course will also introduce requirements for Government and Contract Research standards for working with highly pathogenic microorganisms, study design, development, and execution to include issues with regard to Good Laboratory Practices, Institutional Animal Care and Use Committee, Quality Assurance, and safety pharmacology.
- **PSY8350 Aviation Psychology**: The application of psychological principles and methods in the aviation domain. The focus is on the dynamic pilot-cockpit interface, its cognitive processing demand, and implications for designs of technological support. Department Managed Prerequisite(s): Graduate level PSY 7210 Minimum Grade of D.
- **REL5780 Apocalypse of John**: A literary and historical study of the Book of Revelation in its original setting with a consideration of its ongoing influence.
- **NUR7731 Adv New/Infant Pharm**: Principles of pharmacology as applied to the child from birth to the age of 2 are presented. Common drug therapies across a wide array of classes for use in the NICU or those whose clinical condition originated in the neonatal period are discussed as well as novel, innovative, experimental treatment protocols, use of off-label medications, and therapeutic drug testing. The legal, ethical, and financial constraints relative to prescriptive authority of the NNP are presented.
<table>
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<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
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<tr>
<td>Spring 2021</td>
<td>BMS7411</td>
<td>Rehab Eng Design I</td>
<td>Biomedical Sciences</td>
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<td>SOC4320</td>
<td>Neighbor Communities</td>
<td>Sociology</td>
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<td>FR3110</td>
<td>French Conversation</td>
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<td>BRO2110</td>
<td>Molecular Bio &amp; Genetics</td>
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<td>PSY2910</td>
<td>Drugs &amp; Behavior</td>
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<td>MUE6050</td>
<td>Chamber Music Ensembles</td>
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<td>Spring 2021</td>
<td>EES3120</td>
<td>Earth Materials</td>
<td>Earth &amp; Environmental Sciences</td>
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<td>Spring 2021</td>
<td>PLS4825</td>
<td>Washington DC Internship</td>
<td>Political Science</td>
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<td>Spring 2021</td>
<td>ART3140</td>
<td>Baroque Art</td>
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<td>CEG7590</td>
<td>Medical Image Analysis</td>
<td>Computer Engineering</td>
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<td>Spring 2021</td>
<td>ISE1110</td>
<td>Intro Eng Sci Applications All</td>
<td>Industrial &amp; Systems Engr</td>
<td>4</td>
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<td>EDS6280</td>
<td>Std Tchng: ECIS</td>
<td>Education - Special Education</td>
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<td>URS4330</td>
<td>Strategic Planning</td>
<td>Urban Affairs</td>
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<td>Spring 2021</td>
<td>MLB4830</td>
<td>Immunohematology Prac</td>
<td>Medical Laboratory Science</td>
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<td>WGS3250</td>
<td>Women Multicultural Pers</td>
<td>Women, Gender, and Sexuality</td>
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<td>MGT4260</td>
<td>Staffing</td>
<td>Management</td>
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<td>Spring 21</td>
<td>MKT4720</td>
<td>4.720</td>
<td>Small Bus Mktg Planning</td>
<td>MKT  Marketing 3  Apply basic business and marketing concepts to practical situations. Students work in small teams as consultants on a business/marketing plan project with local small businesses.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>HEA9260</td>
<td>9.260</td>
<td>The Community College</td>
<td>HEA Higher Education Admin 3  Explores the historical roots of the most exciting, important innovation in American higher education since the Second World War, the community college. How and why did they come into being, how do they really work, and how can we make them more effective?</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>BME3520</td>
<td>3.520</td>
<td>Microcomputers for BME</td>
<td>BME Biomedical Engineering 4  Principles, hardware structure, and programming techniques of microprocessors, microcomputers and microcontrollers. Applications of microcomputers and microcontrollers in health care, rehabilitation and medical research.</td>
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<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>IT4400</td>
<td>4.400</td>
<td>Motion Graphics</td>
<td>IT Information Technology 3  Creating engaging interactive content for mobile-device apps using the industry-leading software.</td>
<td>UG</td>
<td>LL</td>
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<tr>
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<td>PSY6370</td>
<td>6.370</td>
<td>Psychology of Aging Cap</td>
<td>PSY Psychology 3  Communication-intensive seminar integrating knowledge on theories, methods, and research related to human aging. Focus on both current research and applications from psychology.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<td>SW3800</td>
<td>3.800</td>
<td>Social Work Practice I</td>
<td>SW Social Work 3  Focus on ethics and an introduction to practice skills. Field observation required to apply skills related to ethics, rapport building, interviewing techniques, and bio-psycho-social assessment.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSY3020</td>
<td>3.020</td>
<td>Research Methods Psy II</td>
<td>PSY Psychology 4  Methods of true experiments, data analysis and APA-style writing. Uses methods from representative fields of psychology to collect, summarize and visualize data. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CHM1220</td>
<td>1.220</td>
<td>General Chemistry II</td>
<td>CHM Chemistry 3  Properties of liquids, solids and solutions, phase changes, chemical kinetics and equilibrium, acid/base chemistry and its applications, thermodynamics and electrochemistry.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ENG4870</td>
<td>4.870</td>
<td>Poetry Writing Capstone</td>
<td>ENG English 3  Students will produce a portfolio integrating knowledge, skills, and principles regarding the writing and revision of original poetry.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 21</td>
<td>NUR7002</td>
<td>7.002</td>
<td>Info Tech in Hlth Care</td>
<td>NUR Nursing 3  This course focuses on the theoretical basis of nursing and health care informatics. The model of data, information and knowledge is used to explore the basis of nursing informatics within health care. Strategies are examined for dissemination, access, retrieval and evaluation of information for professionals and consumers of health care.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CHI2210</td>
<td>2.210</td>
<td>Intro Chinese Characters</td>
<td>CHI Chinese 3  An in-depth practical introduction to the Chinese writing system. Includes history of Chinese characters, radicals, sequence of strokes, calligraphy, and dictionary use.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BMB4230</td>
<td>4.230</td>
<td>Biochem and Mol Bio II</td>
<td>BMB Biochem &amp; Molecular Biology 3  Biosynthetic and biodegradative metabolism with emphasis on the molecular events leading to the regulation of metabolism. Covers the chemistry which enables cells to generate energy for life-sustaining processes and the role of biological membranes in this process. Includes control and regulation of metabolic processes at the molecular level.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CS2800</td>
<td>2.800</td>
<td>Web Development I</td>
<td>CS Computer Science 3  Introduction to basic web design and development using HTML and CSS. Topics include page structure, responsive design, and use of multimedia. Client-side programming using scripting languages such as JavaScript and jQuery will be introduced.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>REL5930</td>
<td>5.930</td>
<td>Faith &amp; Reason</td>
<td>REL Religion 3  Issues in the philosophy of religion. Topics vary.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CEG4326L</td>
<td>4.326L</td>
<td>IC Hardware Sec &amp; Trust Lab</td>
<td>CEG Computer Engineering 1  Analyze hardware security/trust and be able to implement various countermeasures to improve trust for hardware IC systems. Topics include IC design flow/lifecycle, trust issues at each stage of the IC lifecycle, attack methodologies that threaten HW IC systems, countermeasures to improve trust for HW IC systems, improving Trust for both ASIC and FPGA based systems.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CS1181L</td>
<td>1.181L</td>
<td>Computer Science II Lab</td>
<td>CS Computer Science 0  Required laboratory for CS 1181. Integrated Writing course.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 21</td>
<td>KNH7600</td>
<td>7.600</td>
<td>Adv Athletic Training Te</td>
<td>KNH Kinesiology &amp; Health 3  Examination of trauma, contusions, hematoma, strains, sprains, fractures, open wounds, and dislocations.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MGT7010</td>
<td>7.010</td>
<td>Social Influence Organizations</td>
<td>MGT Management 3  This course examines various aspects of power, including how power is acquired, retained, and used in organizations. It also explores what effect power has on employees and the overall performance of organizations.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC7800</td>
<td>7800</td>
<td>Ec Problems Seminar</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Titles vary. Six hours of seminar must be selected from the following topics: economics of the workforce; regional and urban problems; environmental issues; technological change; economic development; economics of poverty; and income maintenance. Completion of introductory statistics course or equivalent 600-level survey course required.</td>
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<tr>
<td>Spring 2021</td>
<td>BIO4490</td>
<td>4490</td>
<td>Genetic Screen using RNA</td>
<td>BIO</td>
<td>Biology</td>
<td>3</td>
<td>Students will perform original research in the fields of developmental and reproductive biology by using planarian screens to identify genes expressed in the reproductive system and required for development of eggs and sperm.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS8910</td>
<td>8910</td>
<td>PhD Seminar in CS</td>
<td>CS</td>
<td>Computer Science</td>
<td>1</td>
<td>Seminar discussion of current research in computer science.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I7260</td>
<td>7260</td>
<td>Immunology</td>
<td>M&amp;I</td>
<td>Microbiology &amp; Immunology</td>
<td>4</td>
<td>(Also listed as BMS 8020) Fundamentals of immunobiology and basic virology. Emphasis on the regulatory and cellular level of host immune responses against microbial pathogens, as well as mechanisms of immunopathology, and on the characteristics and molecular biology of virus pathogens.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6730</td>
<td>6730</td>
<td>AYA: Int Soc St: C&amp;M II</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Provides developing professional educators instruction in current trends and issues in adolescence and young adult social studies.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4220</td>
<td>4220</td>
<td>Intro to Geophysics</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>4</td>
<td>Methods and concepts of practical exploration geophysics. Seismic refraction, seismic reflection, gravity methods, electrical methods, and magnetic methods. Requires Saturday field work in the vicinity of the campus.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME7990</td>
<td>7990</td>
<td>Independent Stdy in BME II</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>1</td>
<td>Graduate independent studies in advanced biomedical engineering. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4750</td>
<td>4750</td>
<td>Mat. Characterization</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>2</td>
<td>Principles of characterizing materials with respect to crystal structure, micro/nano structure, and chemical composition using particle or wave-based probes (visible lights, X-rays, and energetic electrons). The interactions between the probes and materials are discussed. Characterization at both qualitative and quantitative level will be elucidated. Laboratory exercises are included.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4290</td>
<td>4290</td>
<td>Remote Sensing of Earth</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Remote sensing from an earth science perspective. Students learn to interpret various types of images including stereo air photos, airborne multi-spectral digital images and satellite images. Hands-on digital image processing using industry standard software.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG2171</td>
<td>2171</td>
<td>C++ Prog for Sci &amp; Egr</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>4</td>
<td>Object-oriented programming using the C++ programming language. Topics include abstract data types, inheritance, polymorphism, abstract classes, templates, pointers, linked lists, stacks, queues, recursion, sorting algorithms, and binary trees. Students will apply problem-solving techniques and algorithm development to solve problems in engineering and science, and will implement those algorithms in the C++ language.</td>
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<tr>
<td>Spring 2021</td>
<td>FIN3120</td>
<td>3120</td>
<td>Investing in Securities</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Introduction to the theory and practice of investing in stocks, bonds, and other securities.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3580</td>
<td>3580</td>
<td>Singing Mus Theatre VI</td>
<td>TH</td>
<td>Theatre</td>
<td>2</td>
<td>Private singing lessons for musical theatre.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CRT2990</td>
<td>2990</td>
<td>Law Enforcement Intern</td>
<td>CRT</td>
<td>Corrections</td>
<td>3</td>
<td>Opportunity to observe the criminal justice system in operation while comparing classroom theory with the day-to-day operation of the agency to which they are assigned and the roles and responsibilities of the professional in the field. Total of 40 clock hours, spread over the semester, in the agencies assigned.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I6750</td>
<td>6750</td>
<td>Pathogenic Mechanisms</td>
<td>M&amp;I</td>
<td>Microbiology &amp; Immunology</td>
<td>4</td>
<td>(Also listed as BMS 7750) This advanced level course will expand the knowledge of basic microbiology by focusing on human-microbial pathogen interactions. The molecular basis of the pathogenic mechanisms will be emphasized. In addition, the student will gain a better appreciation and understanding of the complexities of interactions between microbes and their human hosts.</td>
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<td>Semester</td>
<td>Code</td>
<td>Title</td>
<td>Days</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
<td>Level</td>
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<tr>
<td>Spring 21</td>
<td>BIO1070</td>
<td>Health and Disease</td>
<td></td>
<td>1070</td>
<td>Introduces non-science majors to how the human body functions and the social, political, and cultural aspects of public health. Students will gain a deeper appreciation about health promotion and disease prevention, and acquire information that may help them to make health care decisions for themselves and their families.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>COM3250</td>
<td>Health Communication</td>
<td></td>
<td>3250</td>
<td>Basic themes and issues that have developed in health communication research including physician-patient and nurse-patient communications, organizational communication in health care organizations, and relationships among care providers.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EDL7810</td>
<td>Schll Finance &amp; Economics</td>
<td></td>
<td>7810</td>
<td>The financing of public education and the economics of education. Guiding principles for developing financial programs and management procedures.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>KNH1300</td>
<td>Hiking</td>
<td></td>
<td>1300</td>
<td>Fundamental skills and knowledge of Hiking. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ART4120</td>
<td>Adv Studies Medieval Art</td>
<td></td>
<td>4120</td>
<td>Intensive studies of the period, major movements, and artists of the time. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ART 3120 Minimum Grade of D&lt;/b&gt;</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>IDL7200</td>
<td>Professional Practice</td>
<td></td>
<td>7200</td>
<td>Examines the ethical, legal, and political implications of instructional design. Consideration of issues of intellectual property rights, ethics, managing online reputation, and professional responsibilities are discussed.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MIS7000</td>
<td>Info Systems Strategy</td>
<td></td>
<td>7000</td>
<td>Concepts and practices of management information systems for using information in the management of business enterprises are investigated to determine their deployment in achieving organization objectives. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>LA4000</td>
<td>CELIA Internship</td>
<td></td>
<td>4000</td>
<td>Internship with a local arts organization under the auspices of CELIA, Wright State's Ohio Center of Excellence in Collaborative Education, Leadership and Innovation in the Arts.</td>
<td>UG</td>
<td>IN</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUS4810</td>
<td>Adv Studies in Spec Subjects</td>
<td></td>
<td>4810</td>
<td>Directed research.</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ME4180</td>
<td>Additive Manufacturing</td>
<td></td>
<td>4180</td>
<td>An introduction to additive manufacturing process. The course will address various additive manufacturing (AM) principles and concepts; Materials science for AM; Design for AM; Scope of additive manufacturing with application area; bio-manufacturing. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D&lt;/b&gt;</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED3030</td>
<td>LA and SS Grades 4&amp;5</td>
<td></td>
<td>3030</td>
<td>Pedagogy and content knowledge of content area reading through the study of grades 4 and 5 social studies.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SPN3810</td>
<td>Applied Elem Spn Instruc</td>
<td></td>
<td>3810</td>
<td>Spanish majors assist elementary course instructors in conducting classes. For Spanish majors and minors only. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of B or Undergraduate level SPN 3250 Minimum Grade of B&lt;/b&gt; and (&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level SPN 3120 Minimum Grade of B or Undergraduate level SPN 3220 Minimum Grade of B or Undergraduate level SPN 3260 Minimum Grade of B or Undergraduate level SPN 3310 Minimum Grade of B or Undergraduate level SPN 3430 Minimum Grade of B or Undergraduate level SPN 3440 Minimum Grade of B or Undergraduate level SPN 3610 Minimum Grade of B&lt;/b&gt;)</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>COM3700</td>
<td>Dispute Resolution</td>
<td></td>
<td>3700</td>
<td>Nature and cause of conflict, the impact of communication on conflict escalation, and the process of conflict resolution. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PHL4010</td>
<td>Major Philosophers</td>
<td></td>
<td>4010</td>
<td>In-depth examination of the works of a major philosopher. Topics vary. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MTH7710</td>
<td>Topology</td>
<td></td>
<td>7710</td>
<td>Topological spaces, continuous maps, open and closed maps, Connectedness, Separation Axioms, Convergence, Compactness, Homotopy, Basic concepts of algebraic topology. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level MTH 4320 Minimum Grade of D or Graduate level MTH 6320 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ME7370</td>
<td>Cardio Biofluid Mechanic</td>
<td></td>
<td>7370</td>
<td>This course describes the intricate relations between the fluid mechanics and biomedical aspects of the cardiovascular system. By the end of the course, students will be able to: 1)Identify, recognize and define biofluid mechanics concepts in relation to the cardiovascular system. 2)Model the flow and fluid-structure interactions in cardiovascular structures. 3)Apply this knowledge to analyze clinical research problems. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MTH4710</td>
<td>Geometry</td>
<td></td>
<td>4710</td>
<td>Introduction to hyperbolic and other geometries.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>Spring 2021</td>
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<td>Provides supervised experience for counselor trainees providing psychotherapy, counseling, guidance, instruction, and assessment to individuals and groups to resolve behavioral, substance, educational/vocational/career, marital/family/relational, and personal/social problems and diagnose and treat mental and emotional/affective disorders.</td>
<td>CNL</td>
<td>Grad level CNL 6010 Minimum Grade of B and Graduate level CNL 6020 Minimum Grade of B and Graduate level CNL 6030 Minimum Grades of B and Graduate level CNL 6220 Minimum Grade of B or Graduate level CNL 7220 Minimum Grade of B and Graduate level CNL 7290 Minimum Grade of B and Graduate level CNL 7280 Minimum Grade of B and Graduate level CNL 7230 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Studies processes and activities that direct the flow of goods and services from the producer to the consumer with consideration of the social, economic, legal, and international environments.</td>
<td>MKT</td>
<td>Undergraduate level MKT 2500 with minimum grade of D or Department Managed Prerequisite(s): Graduate level MKT 6510 with minimum grade of C and Graduate Level MKT 6030 Minimum Grades of B and (Graduate level MKT 6020 Minimum Grade of B and Graduate level MKT 6030 Minimum Grades of B and Graduate level MKT 6220 Minimum Grade of B or Graduate level MKT 7220 Minimum Grade of B and Graduate level MKT 7290 Minimum Grade of B and Graduate level MKT 7280 Minimum Grade of B and Graduate level MKT 7230 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
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<td>This course examines the how components of Earth (biosphere, hydrosphere, lithosphere, atmosphere) combine to affect how elements cycle through and between these components. This understanding forms the basis of the field of biogeochemistry. Topics include feedback loops, weathering, biological redox processes, nutrient cycling, gas fluxes, and how humans have modified Earth's biogeochemistry.</td>
<td>ENG</td>
<td>English 7030 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level ENG 6920 with minimum grade of C and Undergraduate level ENG 7920 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Introduction to research in language and the TESOL field. Emphasis on finding and using library resources, surveying research designs, and understanding and reporting research in the human sciences.</td>
<td>PSY</td>
<td>Psychology 3920 with minimum grade of D or Department Managed Prerequisite(s): Advanced undergraduate level Psychology 3230 with minimum grade of C and Graduate level Psychology 4700 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Understand electronic warfare system architecture, understand and evaluate electronic warfare processing, understand and analyze low probability of intercept signals, perform second order cyclostationary analysis on RF signals, and simulate electronic warfare systems and operations.</td>
<td>EE</td>
<td>Electrical Engineering 7370 with minimum grade of D or Department Managed Prerequisite(s): Graduate level Electrical Engineering 6210 with minimum grade of C and Undergraduate level Electrical Engineering 3260 with minimum grade of D.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Application of marketing tools to local businesses. Student teams use marketing tools (e.g., SWOT, target market, competitive analysis, positioning, 4Ps, milestones, metrics) to develop recommendations to address core issues in the challenge.</td>
<td>MKT</td>
<td>Marketing 4700 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Marketing 3650 with minimum grade of C and Undergraduate level Marketing 4650 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Realizations, testing and evaluation of digital integrated circuits with particular emphasis on programmable logic devices.</td>
<td>CEG</td>
<td>Computer Engineering 4320L with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Computer Engineering 3320L with minimum grade of C and Undergraduate level Computer Engineering 4320L Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>A survey of the literature of the piano and its predecessors--clavichord, harpsichord, and the pianoforte--from early English Virginal Music to the present time.</td>
<td>MUS</td>
<td>Piano Literature 6510 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Piano Literature 3510 with minimum grade of C and Undergraduate level Piano Literature 4510 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>This introductory course will provide insight and in-depth knowledge regarding dyslexia: history, theory, brain-based research, appropriate methodologies, applied techniques including instructional strategies, effective instruction, assistive technology, and an overall holistic understanding of learners with dyslexia.</td>
<td>EDS</td>
<td>Education - Special Education 5900 with minimum grade of D or Department Managed Prerequisite(s): Graduate level Education - Special Education 6900 Minimum Grade of B and Graduate level Education - Special Education 7900 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
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<td>Explores how autism impacts classroom routines and learners. Examines educational environments and materials/strategies impacting regulatory needs of students including sensory and functional behavior assessments. Targets self-regulation, executive function, functional communication and emotional awareness strategies.</td>
<td>EDS</td>
<td>Education - Special Education 6030 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Education - Special Education 5030 with minimum grade of D and Undergraduate level Education - Special Education 6030 Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Introduction to the Visual Basic Programming language for business majors. Students will be able to create Windows applications by the end of the course.</td>
<td>MIS</td>
<td>Management Information Systems 1150 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Management Information Systems 1150 Minimum Grade of B and Undergraduate level Management Information Systems 1150A Minimum Grade of B.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Explores quantitative techniques as applied to planning and control of systems in production and service industries. Applications include inventory control, scheduling, waiting time &amp; variability management and production/workforce planning.</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr 4810 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Industrial &amp; Systems Engr 3810 with minimum grade of D and Undergraduate level Industrial &amp; Systems Engr 4810 Minimum Grade of B.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td></td>
<td>Fundamental skills and knowledge of Volleyball. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>PSY</td>
<td>Psychology 3230 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Psychology 2230 with minimum grade of D and Undergraduate level Psychology 3230 Minimum Grade of B.</td>
<td></td>
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</tr>
<tr>
<td>Spring 2021</td>
<td></td>
<td>Explores how autism impacts classroom routines and learners. Examines educational environments and materials/strategies impacting regulatory needs of students including sensory and functional behavior assessments. Targets self-regulation, executive function, functional communication and emotional awareness strategies.</td>
<td>PSY</td>
<td>Psychology 3230 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Psychology 2230 with minimum grade of D and Undergraduate level Psychology 3230 Minimum Grade of B.</td>
<td></td>
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</tr>
<tr>
<td>Spring 2021</td>
<td></td>
<td>Laboratory research in various areas of cognitive psychology. Integrated Writing course.</td>
<td>PSY</td>
<td>Psychology 3230 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Psychology 2230 with minimum grade of D and Undergraduate level Psychology 3230 Minimum Grade of B.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
| Spring 2021 |         | Explores how autism impacts classroom routines and learners. Examines educational environments and materials/strategies impacting regulatory needs of students including sensory and functional behavior assessments. Targets self-regulation, executive function, functional communication and emotional awareness strategies. | PSY       | Psychology 3230 with minimum grade of D or Department Managed Prerequisite(s): Undergraduate level Psychology 2230 with minimum grade of D and Undergraduate level Psychology 3230 Minimum Grade of B.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Instructor</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE6970</td>
<td>6970</td>
<td>Paul L Dunbar Chorale</td>
<td>MUE</td>
<td>Music: Ensembles</td>
<td>1</td>
<td>A choral ensemble for students who desire to explore the musical style of gospel music and its roots and various forms. Includes performances of a body of literature associated with the African American church to the university and surrounding communities.</td>
<td>GR</td>
</tr>
<tr>
<td>ENG4190</td>
<td>4190</td>
<td>Internship in Literature</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Supervised professional application of literary study skills in a workplace setting.</td>
<td>UG</td>
</tr>
<tr>
<td>ML2050</td>
<td>2050</td>
<td>Russian Culture</td>
<td>ML</td>
<td>Modern Languages</td>
<td>3</td>
<td>Introduction to Russian culture and history with particular focus on the historic roots and cultural manifestations of Russia’s unique Eastern-Western character; the changes to the Russian life style and mentality after 1917 as seen in essay, short fiction, documentary and feature films, and visual art; and Russian cultural impact in the United States.</td>
<td>UG</td>
</tr>
<tr>
<td>EGR3980R</td>
<td>3980R</td>
<td>Special Topics in EGR Rec</td>
<td>EGR</td>
<td>Engineering</td>
<td>0</td>
<td>Required recitation for EGR 3980.</td>
<td>UG</td>
</tr>
<tr>
<td>PPH6100</td>
<td>6100</td>
<td>Biostatistics for Health</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>Introduction to the basic principles and applications of statistical methods as they are applied to data arising in the health professions.</td>
<td>GR</td>
</tr>
<tr>
<td>CNL7650</td>
<td>7650</td>
<td>Prin &amp; Prac of Schl Coun</td>
<td>CNL</td>
<td>Counseling</td>
<td>3</td>
<td>This course explores the design, implementation, management, and evaluation of comprehensive school counseling programs. School counseling programming is discussed in terms of its relationship to the total school program and to community support systems.</td>
<td>GR</td>
</tr>
<tr>
<td>FIN4260</td>
<td>4260</td>
<td>Estate Planning</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Theoretical and practical approach to estate planning. Includes estate and gift taxes, wills, trusts, and estate planning techniques.</td>
<td>UG</td>
</tr>
<tr>
<td>CEG4322L</td>
<td>4322L</td>
<td>VLSI Design Lab</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>1</td>
<td>Work station based experience designing ASIC devices for evaluation and testing.</td>
<td>UG</td>
</tr>
<tr>
<td>SAA6640</td>
<td>6640</td>
<td>Career Assessment</td>
<td>SAA</td>
<td>Student Affairs in Higher Ed</td>
<td>2</td>
<td>Analyze formal and informal assessment approaches to the career development process. Explore and evaluate job search strategies and resources for clients. A variety of career development theories are discussed and applied to client cases.</td>
<td>GR</td>
</tr>
<tr>
<td>URS3100</td>
<td>3100</td>
<td>The American City</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Intensive study of aspects of American urban experiences with an emphasis on qualitative research including class, gender, race, and ethnicity.</td>
<td>UG</td>
</tr>
<tr>
<td>EE4360</td>
<td>4360</td>
<td>Digital Signal Proc</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Principles and applications of digital signal processing (DSP) from the design and implementation perspective. Introduction to advanced digital signal processing design concepts. Focus on time and frequency domain algorithms. Methods include multirate signal processing, filter banks, time-frequency analysis, and wavelets.</td>
<td>UG</td>
</tr>
<tr>
<td>KNH1270</td>
<td>1270</td>
<td>H2O Kickboxing</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of H2O Kickboxing. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>PLS4040</td>
<td>4040</td>
<td>Civil Rights Struggles</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>History and development of castigation in America, focusing upon groups. Examines the struggles of race, ethnicity, gender, sexual orientation, immigrants, native Americans, labor, religion, non-citizens, the disabled and aged and the fetus and animals. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>BME4940</td>
<td>4940</td>
<td>Biomed Eng Internship II</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>1</td>
<td>Biomedical engineering internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 3rd year courses as listed in the program guide. Minimum of 10 hours per week for each credit hour registered. A minimum total of 450 hours of work is required for 3 credits of technical elective credit.</td>
<td>UG</td>
</tr>
<tr>
<td>KNH1280B</td>
<td>1280B</td>
<td>H2O Moves with Step</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of H2O Moves with Step. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>EGR2980R</td>
<td>2980R</td>
<td>Special Topics in EGR Rec</td>
<td>EGR</td>
<td>Engineering</td>
<td>0</td>
<td>Required recitation for EGR 2980.</td>
<td>UG</td>
</tr>
<tr>
<td>COM4570</td>
<td>4570</td>
<td>Intercultural Comm</td>
<td>COM</td>
<td>Communication</td>
<td>3</td>
<td>Emphasis on research and theory to better understand the complexity of intercultural communication interactions.</td>
<td>UG</td>
</tr>
<tr>
<td>PSY9040</td>
<td>9040</td>
<td>Neural Networks</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Examines neural networks as models of perception and cognition. Topics include perceptrons, patternassociators, backpropagation, and self-organizing networks. Students apply neural networks to a topic of their interest using MATLAB.</td>
<td>GR</td>
</tr>
<tr>
<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Instructor Type</td>
<td>Delivery Method</td>
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<tr>
<td>Spring 2021</td>
<td>ECE4030</td>
<td>ECE-Gen Effce Sci Instr</td>
<td>4.030</td>
<td>Biology 5 methods for teaching middle level science pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula, and materials suitable for teaching fourth and fifth grade science education.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4730</td>
<td>Marine Biology</td>
<td>4.730</td>
<td>Oceanic ecosystem dynamics and the biological communities associated with different marine habitats. Emphasizes structural and physiological adaptations of organisms to their environment and interactions among different species (competition, predation, and mutualisms). Current threats to marine habitats. Includes a 1 week field trip to the North Carolina coast.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR6820</td>
<td>Ind Read for Grad Studen</td>
<td>6.820</td>
<td>Independent reading for graduate students. Taught in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D.</td>
<td>GR</td>
<td>IS Independent Study</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS7180</td>
<td>Music and the Humanities</td>
<td>7.180</td>
<td>This course explores relationships between music and the other arts, especially visual art and literature.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR4540</td>
<td>19th Century Short Story</td>
<td>4.540</td>
<td>Study of short stories by such authors as Mérimée, Gautier, Balzac, Daudet, Flaubert, Stendhal, Maupassant, and Villiers de l'Isle Adam. Taught in French. Department Managed Prerequisite(s): Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3210 Minimum Grade of D.</td>
<td>UG</td>
<td>LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>P&amp;N4880</td>
<td>Ind Reading - Physiology</td>
<td>4.880</td>
<td>Various physiology topics will be discussed with an assigned faculty advisor.</td>
<td>UG</td>
<td>IS Independent Study</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7712</td>
<td>Disc Ev Mod &amp; Analy</td>
<td>7.712</td>
<td>Modeling of systems using discrete event techniques. Structures to support discrete event models with experience in building and verifying models. Analysis of simulation output data and creating model input from data using statistical techniques. Department Managed Prerequisite(s): Graduate level IHE 6120 Minimum Grade of D.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6110</td>
<td>Intro to Software Engr</td>
<td>6.110</td>
<td>Introduction to the concepts of Software Engineering. Software qualities, development life-cycle models, requirements analysis, semi-formal and formal systems modeling, system design, testing, and project management techniques. Case studies and a course project serve as examples illustrating the software engineering process.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4830</td>
<td>Adv Fiction Wrtg Seminar</td>
<td>4.830</td>
<td>Advanced practice in writing and revising fiction, refining craft and style, with the aim of producing fiction of superior merit; group discussion of manuscripts, and reading and discussion of contemporary fiction. Integrated Writing course.</td>
<td>UG</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3500</td>
<td>Directing</td>
<td>3.500</td>
<td>Problems of script selection and interpretation, casting, rehearsing, and performance. Techniques of composition and movement; the proscenium stage and open stage. Preparation of the prompt book.</td>
<td>UG</td>
<td>LL Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL4930</td>
<td>Seminar in Religion</td>
<td>4.930</td>
<td>Intensive study and discussion of a significant topic in religion studies. Students will conduct semester long research projects culminating in a seminar paper. Titles vary. Integrated Writing course.</td>
<td>UG</td>
<td>SE Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY6620</td>
<td>Nucl. &amp; Particle Phys.</td>
<td>6.620</td>
<td>Nuclear radiation, nuclear properties, nuclear transformations, and elementary particles and interactions. Relativistic energy relationships.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3520</td>
<td>Stage Management II</td>
<td>3.520</td>
<td>Skills and processes required of the working stage manager. Explores practical solutions to problems of stage management in opera, dance, and unions.</td>
<td>UG</td>
<td>LL Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6871</td>
<td>Fundamentals of Intel</td>
<td>6.871</td>
<td>Immerses students in the fundamental tradecraft standards of intelligence analysis used by the United States Intelligence Community.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4500L</td>
<td>Clin Exercise Phys Lab</td>
<td>4.500L</td>
<td>Required laboratory for BIO 4500.</td>
<td>UG</td>
<td>LB Lab</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3050</td>
<td>Animal Physiology</td>
<td>3.050</td>
<td>Basic adaptive mechanisms and their coordination in the activities of the metazoa. Interedependency of form and function, of plasticity and homeostasis, and control mechanisms in animal physiology.</td>
<td>UG</td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG2110</td>
<td>Research and Argument</td>
<td>2.110</td>
<td>Adapts principles introduced in ENG 1100 to writing for educators. Emphasizes audience awareness, reflection, analysis, argument, research, and effective use of supporting source materials. Students may use any of the following courses to satisfy the requirements of the Core, but only one may count: ENG 2100, ENG 2110, ENG 2120, ENG 2130, or ENG 2140.</td>
<td>UG</td>
<td>LE Lecture</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Description</td>
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<tr>
<td>CEG7550</td>
<td>7550</td>
<td>Computer Vision</td>
<td>CEG</td>
<td>Algorithms for low- and mid-level vision, including noise filtering, edge detection, image segmentation, texture analysis, feature extraction, stereo depth perception, camera calibration, 3-D reconstruction, shape from shading.</td>
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<tr>
<td>NEU1020</td>
<td>1020</td>
<td>The Neuroscience of Learning</td>
<td>NEU</td>
<td>Understand the neuroscientific principles that underlie learning and practice behaviors that further promote learning.</td>
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<tr>
<td>PLS4730</td>
<td>4730</td>
<td>American Foreign Policy</td>
<td>PLS</td>
<td>Role of the United States in contemporary international politics and the relationship of the domestic political system to that role. Discussion of current policy and events. Integrated Writing course.</td>
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<tr>
<td>LEP0580</td>
<td>0580</td>
<td>Grammar Refresher</td>
<td>LEP</td>
<td>English grammar review course for high-intermediate to advanced non-native English speakers. This course has a fee that is non-refundable once the term begins.</td>
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<tr>
<td>PLS3100</td>
<td>3100</td>
<td>Quant Method PolySci</td>
<td>PLS</td>
<td>Uses of quantitative data with emphasis on contemporary research applications in the social sciences. Analysis and interpretation of data.</td>
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<tr>
<td>NUR4150</td>
<td>4150</td>
<td>Independent Study</td>
<td>NUR</td>
<td>Faculty-directed, individualized study of student-selected topics.</td>
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</tr>
<tr>
<td>ATH4300</td>
<td>4300</td>
<td>Special Topics Biologica</td>
<td>ATH</td>
<td>Intensive study of selected topics in biological anthropology.</td>
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</tr>
<tr>
<td>TH3350</td>
<td>3350</td>
<td>Costume Crafts</td>
<td>TH</td>
<td>Creative, innovative, and often inexpensive alternatives for the creation of jewelry applique, embellishments, armor, crowns, and basic millinery techniques for theatrical production.</td>
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<tr>
<td>EST140</td>
<td>7140</td>
<td>Environmental Statistics</td>
<td>ES</td>
<td>Statistical techniques for the modeling and analysis of environmental data including advanced regression techniques, generalized linear models, and random effects. Also modeling of spatial and time-series environmental data, including spatio-temporal analysis, using appropriate software. Applications and case studies.</td>
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<tr>
<td>ED6920</td>
<td>6920</td>
<td>Prof Sem: AYA/MA</td>
<td>ED</td>
<td>Teacher candidates will be provided the necessary knowledge and skills regarding issues affecting education to assist them in making a successful transition from being a teacher-candidate to becoming a professional educator.</td>
<td></td>
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<tr>
<td>PTX6010</td>
<td>6010</td>
<td>Intro to Biochemistry</td>
<td>PTX</td>
<td>This course provides an introduction to the application of biochemistry to pharmacology. Students will learn fundamental concepts in the structural and thermodynamic aspects of the organization of proteins.</td>
<td></td>
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<tr>
<td>ENG6940</td>
<td>6940</td>
<td>TESOL Internship</td>
<td>ENG</td>
<td>Supervision of students teaching English to speakers of other languages. Department Managed Prerequisite(s): Undergraduate level ENG 4740 Minimum Grade of B or Graduate level ENG 6740 Minimum Grade of B or Undergraduate level ENG 4745 Minimum Grade of B or Graduate level ENG 6745 Minimum Grade of B or Undergraduate level ENG 4760 Minimum Grade of B or Graduate level ENG 66760 Minimum Grade of B.</td>
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<tr>
<td>LEP0350</td>
<td>0350</td>
<td>List &amp; Speak - Level 3</td>
<td>LEP</td>
<td>Listening, speaking and pronunciation for high-intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
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</tr>
<tr>
<td>KNH1200A</td>
<td>1200A</td>
<td>Fencing: Beginning</td>
<td>KNH</td>
<td>Fundamental skills and knowledge of Fencing: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<tr>
<td>KNH1760B</td>
<td>1760B</td>
<td>Walk-Jog-Run</td>
<td>KNH</td>
<td>Fundamental skills and knowledge of Walk-Jog-Run. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<tr>
<td>PHL3320</td>
<td>3320</td>
<td>20th C Political Phil</td>
<td>PHL</td>
<td>Major thinkers in 20th century political philosophy. Topics vary, focusing on one or more themes such as rights, democracy, liberalism, pluralism, securalism, tolerance, torture, terrorism, or totalitarianism. Readings from thinkers such as Arendt, Marcuse, Habermas, Foucault, Derrida, Rawls, Rorty, Cohen, Machtyre, Taylor, Nussbaum, and Agamben.</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Instructor</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisites</td>
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<tr>
<td>Spring 2021</td>
<td>APS4020</td>
<td>Project Evaluation</td>
<td>APS</td>
<td>Applied Studies</td>
<td>3</td>
<td>A course to provide opportunities for students to gain knowledge, practice, and study in evaluation and needs assessment. Focus on fundamentals such as the logic model in evaluation, needs assessment techniques, instrument development, information analysis and decision making as they apply to business and organizational settings. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4320</td>
<td>Lasers</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>Introduction to the physics of lasers including emission and absorption processes in lasing, the factors controlling laser gain, the properties of optical resonators, and a survey of salient features for principal types of lasers.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS5400</td>
<td>Law and Society</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Examines the judicial process, civil litigation (torts, contracts, family law) and pertinent constitutional issues.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4080</td>
<td>Design Optimization</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Concepts of minima and maxima; linear, dynamic, integer, and nonlinear programming; variational methods. Engineering applications are emphasized.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6460</td>
<td>Practicum: IS M/J</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>2</td>
<td>Candidates, under the direct supervision of an experienced Intervention Specialist, are assigned to a school for field experience in grades K-12 special education.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7480</td>
<td>Adv Microwave Eng</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Concepts and fundamental principles of advanced high speed electronic devices operating at frequencies greater than 1 GHz, including MESFET, HEMT, RF MOSFET, HBT, and carbon electronics. Models and discussions of semiconductor devices fabricated in a variety of material systems, such as strained Si, III-V compound semiconductors, Si-Ge, CNT and graphene. A description of advanced optoelectronic devices including light-emitting diodes, semiconductor lasers and photovoltaic systems (solar cell).</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7650</td>
<td>Comp Tool/Strategies BMS</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>2</td>
<td>This is a survey course of modern computational tools and strategies used in sequence, e-D structure and functional analysis of biomolecules. Students will gain hands on &quot;laboratory&quot; experience with key software and strategies.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3300</td>
<td>Choral Music Ed Meth II</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>This course is designed to enable the choral music education student to be successful as a teacher/conductor at all levels, with a primary focus on the junior/senior high school.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUE6690</td>
<td>Wind Symphony</td>
<td>MUE</td>
<td>Music: Ensembles</td>
<td>1</td>
<td>The university's most select symphonic band organization, this ensemble performs compositions ranging from traditional classics to innovative contemporary literature, including transcriptions and original works. Audition and instructor permission required.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6810</td>
<td>African-American History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines topics drawing from the African-American experience; may include black ideology and leadership, racial tension in urban society, and the civil rights movement. Topics vary.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4870L</td>
<td>Machining Lab</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>0</td>
<td>Required laboratory for ME 4870.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS6480</td>
<td>Public Works</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Examines the community's infrastructure with an emphasis on capital improvements programming. Reviews the community's development of the street system, water and sewer systems, solid waste management, and code enforcement.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4470</td>
<td>Antenna Theory &amp; Design</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Linear dipole antennas, antenna arrays, thin-wire antennas, moment method analysis examples (voc dipole, folded dipole, etc.), and broadband and frequency-independent antennas. Computer-aided design and analysis of wire antennas, feed networks, and antenna arrays using antenna CAD software.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MI6340</td>
<td>Biological Safety</td>
<td>MI</td>
<td>Microbiology &amp; Immunology</td>
<td>2</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN7240</td>
<td>Sem in Corp. Finance</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Advanced treatment of the theory and practice of long-term financial management. Topics include dividends, leasing, hybrid financing, derivatives and risk management, mergers and acquisitions, and divestitures.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8620</td>
<td>8620</td>
<td>Principal Prog: Midpoint</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Candidates explore various educational leadership topics/issues and their relationship to praxis.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSJ9040</td>
<td>9040</td>
<td>Statistics &amp; Research I</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>Students will learn how to become good consumers of psychological research, how to use electronic databases efficiently, begin to consider how to design their own research, and refine APA style writing skills.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME6350</td>
<td>6350</td>
<td>Comp Neuroerg &amp; Hlth App</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Principles and application of computational methods and technologies to neuroergonomics and neuroengineering; analysis of applications related to brain-system interface and augmented sensory perception; articulation of various methods of non-invasive neuroscience measurements.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC7400</td>
<td>7400</td>
<td>Cost-Benefit Analysis</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Measurement of benefits and costs of both public and private projects with significant public implications. Includes conceptual issues and focuses on practical application, including specific cost-benefit studies.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT5960</td>
<td>5960</td>
<td>Topics in Stat and Prob</td>
<td>STT</td>
<td>Statistics</td>
<td>1</td>
<td>May be taken for letter grade or pass/unsatisfactory. Titles vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH4500</td>
<td>4500</td>
<td>Special Topics Archaeolo</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>Intensive study of selected topics in archaeology.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS2720</td>
<td>2720</td>
<td>Ev Basd Pracs: Ctr Expl</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Evidence-based practices, transitions, environmental interventions; philosophy, policies, laws; community differences in language, culture, family regarding growth, development, characteristics in education of students with exceptional learning needs. Field experiences required.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6610</td>
<td>6610</td>
<td>Human-Comp Interface Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication intensive seminar integrating knowledge on human-computer interface issues.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2160</td>
<td>2160</td>
<td>Counseling Psychology</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>This course offers a background in the scientific theory and practice of counseling from a psychology background. Students develop basic interviewing and counseling skills and self-awareness that promotes appropriate counselor-client relationship.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8520</td>
<td>8520</td>
<td>Stat &amp; Res Desig</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>3</td>
<td>Developing research techniques in basic and inferential statistics using statistical computing software and critical interpretation of educational research design and statistical analysis results.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST3650</td>
<td>3650</td>
<td>Ohio History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Survey of Ohio history from its Native-American origins to Ohio in the Post-Industrial Age.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS4100</td>
<td>4100</td>
<td>Food Laws and Regulation</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>A study of various food laws and regulations governing food processing operations in the United States.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0220</td>
<td>0220</td>
<td>Writing Workshop Level 2</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Writing workshop (revision, editing and lab) for low-intermediate/intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASL3100</td>
<td>3100</td>
<td>Advanced ASL</td>
<td>ASL</td>
<td>American Sign Language</td>
<td>4</td>
<td>Additional vocabulary and sentence structure acquisition pairs with expressive and receptive fluency as well as ASL discourse features.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSJ9150</td>
<td>9150</td>
<td>Child Assessment</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>Overview of child assessment theory, techniques, and strategies to prepare students for further practical work in the assessment of child functioning.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED4530</td>
<td>4530</td>
<td>AYA ISS Methods</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Provides developing professional educators instruction in current trends, issues and methods in adolescence and young adult social studies.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC4810</td>
<td>4810</td>
<td>Independent Reading</td>
<td>EC</td>
<td>Economics</td>
<td>1</td>
<td>Limited to students with extensive backgrounds in economics or allied disciplines and with special reasons for in-depth study in a particular area.</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Level</td>
<td>Instructional Method</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>FAS4200 4200</td>
<td>Food Product Development</td>
<td>3</td>
<td>A capstone project using food science knowledge and skills to develop a new food product.</td>
<td>UG</td>
<td>Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL6140 6140</td>
<td>Philosophy of Law</td>
<td>3</td>
<td>Survey of the important theories concerning the nature and justification of law, liberty, justice, responsibility, and punishment.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS5440 5440</td>
<td>Police Procedures and Operations</td>
<td>3</td>
<td>Procedures and operations of law enforcement at various levels from patrol to senior administration, emphasizing duties, responsibilities and leadership.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATR4620 4620</td>
<td>Adv Concepts in AT</td>
<td>3</td>
<td>Advanced knowledge, skills and dispositions required of the entry-level Certified Athletic Trainer and application of that knowledge.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH7220 7220</td>
<td>Issues in Aging</td>
<td>3</td>
<td>Multidisciplinary approaches to the challenges and opportunities of communities and/or families faced with providing health care and social services to a growing number of older adults. Students will work in multidisciplinary teams for class projects.</td>
<td>GR</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS5990 5990</td>
<td>Studies in Select Topics</td>
<td>3</td>
<td>Problems, approaches and topics in the field of political science.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH7830 7830</td>
<td>Biomechanics</td>
<td>3</td>
<td>Biomechanics and functional anatomy of the human body, with application of biophysical principles to normal joint structure and function, pathomechanics, and clinical analysis of posture, gait, and other movements. Includes instruction in measurement methods.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX9100 9100</td>
<td>Pharmacology Grad Reseach</td>
<td>1</td>
<td>As part of the Thesis Track Pharmacology &amp; Toxicology graduate students will participate in laboratory research.</td>
<td>GR</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR3420 3420</td>
<td>Nur Care Mental Health</td>
<td>1</td>
<td>Focuses on critical reasoning and in the care of individuals and groups with common mental health disorders. Emphasizes therapeutic use of self for enhancing effective communication. Incorporates principles from abnormal psychology, group dynamics, milieu nursing, and complex care relationships, substance use/abuse, crisis intervention, delivery models.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3710 5710</td>
<td>Perception</td>
<td>3</td>
<td>Examines active processes by which organisms gather, interpret, and respond to environmental stimuli.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR2900 2900</td>
<td>Exceptionalities</td>
<td>3</td>
<td>Overview of historical and current legal, philosophical and education issues surrounding the definition, identification, causes/prevalence of specific exceptionalities, service delivery/placement options and multidisciplinary team process across education and community settings.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4990 4990</td>
<td>Independent Study in ME</td>
<td>1</td>
<td>Independent study in Mechanical Engineering or Materials Science and Engineering. Topics vary.</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS6270 6270</td>
<td>Optimization Techniques</td>
<td>3</td>
<td>Algorithms for optimizing real functions of several variables subject to equality and inequality constraints. Convexity properties of functions and sets, linear programming, simplex and interior point methods, integer programming, branch and bound algorithm, transportation problem, necessary and sufficient conditions for nonlinear function optimization, Newton and quasi-Newton methods, Lagrange multiplier conditions, Kuhn-Tucker conditions, dynamic programming.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI1700 1700</td>
<td>Interpreting Process</td>
<td>3</td>
<td>Cognitive skills used in the process of interpreting - visualization, prediction, listening, memory, abstracting, closure, dual tasking, and processing time. Introduction to Demand/Control Schema.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW4880 4880</td>
<td>SW Field Practicum II</td>
<td>3</td>
<td>Individual learning experiences under the supervision of an agency field instructor, with guidance from the faculty-field liaison.</td>
<td>UG</td>
<td>Practicum</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHA8000 8000</td>
<td>Prim Biomedical Research</td>
<td>1</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research. PBR provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7890 7890</td>
<td>Independent Study</td>
<td>1</td>
<td>Explores various facets of history under direct supervision of a faculty member. Requires approval of the supervising faculty member and the Director of Graduate Studies prior to registration. May not be taken on a topic currently offered in the graduate course catalog.</td>
<td>GR</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Instructor</td>
<td>Type</td>
<td>Location</td>
<td>Notes</td>
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<tr>
<td>EDL7800</td>
<td>3</td>
<td>Ethics &amp; Politics in Edu</td>
<td>Developing an understanding of potential structures and effective principles of school/community relations. Concepts of power, pressure groups, lobbying, potential networks, and public ethics are examined.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>PHL6240</td>
<td>6240</td>
<td>Literature and Philos.</td>
<td>A study of literary texts with strong philosophical themes such as philosophy and tragedy or philosophy of science fiction.</td>
<td></td>
<td>Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED6050</td>
<td>6050</td>
<td>Lit Asmt &amp; Int: Int Spec</td>
<td>Utilizing a range of literacy assessment instruments to assess student reading and writing performance and to determine best practices interventions in order to meet student needs.</td>
<td></td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>ATR7400</td>
<td>7400</td>
<td>Therapeutic Interventions</td>
<td>Principles and applications of therapeutic interventions utilizing exercise, manual therapy, and modalities, including, but not limited to, thermal, electromagnetic, and ultrasound agents.</td>
<td></td>
<td>Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EES3660</td>
<td>3660</td>
<td>Env Hlth Sci Internship</td>
<td>Internship in an environmental or public health agency or industrial organization, supervised by faculty and a professional environmentalist. Reports and specific assignments determined in cooperation with internship director.</td>
<td></td>
<td>Internship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY8090</td>
<td>8090</td>
<td>Topics in Human Factors</td>
<td>Seminars with in-depth coverage of special topics in human factors. Topics vary. Permission of Instructor. May be taken for a letter grade or pass/unsatisfactory.</td>
<td></td>
<td>Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEG4324L</td>
<td>4324L</td>
<td>Dig Integ Ckt Design Lab</td>
<td>Realizations, testing and evaluation of digital integrated circuits with particular emphasis on programmable logic devices.</td>
<td></td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC6670</td>
<td>6670</td>
<td>Disability: Power, Politics, Priv</td>
<td>Examines disability from a sociopolitical perspective and provides critical engagement with contemporary issues and debates in disability politics.</td>
<td></td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>FIN6220</td>
<td>6220</td>
<td>Analysis Corp. Fin. Info</td>
<td>This course analyzes corporate financial information from an investment analyst perspective.</td>
<td></td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>NUR7512</td>
<td>7512</td>
<td>Acute Illness for ACPNP</td>
<td>Emphasis on nursing management of complex acute illnesses and multi-system disorders for children/adolescents and their families. Clinical practicum focuses on multi-disciplinary collaboration for the delivery of comprehensive health care, in high acuity settings.</td>
<td></td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>CS1181</td>
<td>1181</td>
<td>Computer Science II</td>
<td>Advanced concepts of computer programming. Use of data structures and tools that facilitate programming. Integrated Writing course.</td>
<td></td>
<td>Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNH1100B</td>
<td>1100B</td>
<td>Bowling</td>
<td>Fundamental skills and knowledge of Bowling. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td></td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME3950</td>
<td>8950</td>
<td>Dissertation Resrch BMG</td>
<td>Ph.D. Dissertation Research in Biomedical Engineering</td>
<td></td>
<td>Independent Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS7670</td>
<td>7670</td>
<td>Mol Basis Inherited Dis</td>
<td>An intensive course on human diseases at all levels; replicational, transcriptional, translational, protein expression, protein folding and processing, protein structure and function, cellular metabolic changes, nuclear and cellular phenotypic changes, symptoms, and putative therapies.</td>
<td></td>
<td>Seminar</td>
<td></td>
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</tr>
<tr>
<td>EDL8610</td>
<td>9610</td>
<td>Curr &amp; Instruct Ldrship</td>
<td>Emphasizes the roles of the curriculum, instructional, and professional development leader. Focuses on developing a strong base of understanding organizational structure and skill building in leadership, communication, decision-making, and problem solving.</td>
<td></td>
<td>Seminar</td>
<td></td>
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</tr>
</tbody>
</table>
| Spring 2021 | LE1140 | 1140 | Police Academy 5 | LE | Law Enforcement | 3 | Ohio Police Training Academy curriculum. Intermediate policing problems and procedures. Examines procedures in traffic and criminal investigations, including report writing. Requires admission to Grand Lake Law Enforcement Academy. | UG | LL | Lecture/Lab Combination
| Spring 2021 | FIN4130 | 4130 | Financial Derivatives | FIN | Finance | 3 | Provide students with an understanding of futures, options, and swaps. | UG | LE | Lecture
| Spring 2021 | MKT4900 | 4900 | Marketing Strategy | MKT | Marketing | 3 | Develops abilities to recognize opportunities and solve problems related to marketing strategy and improve decision making skills applied to the planning of marketing programs. Integrated Writing course. | UG | LE | Lecture
| Spring 2021 | LAT4510 | 4510 | Roman Didactic Lit | LAT | Latin | 3 | Study of Roman didactic and philosophical literature: Lucretius, Vergil's Georgics, Cicero's philosophical works, and Quintilian. | UG | LE | Lecture
| Spring 2021 | AES1240 | 1240 | IMT Leadership Lab | AES | Aerospace Studies | 0 | Air Force Reserve Officer Training Corps training. Application of Air Force tactics, techniques, and procedures. Air Force organizational structure, customs and courtesies. Cadet-led, cadre-supervised lab and participation in two required weekly physical training sessions. | UG | LB | Lab
| Spring 2021 | SW6110 | 6110 | Social Welfare Policy | SW | Social Work | 0 | Provides overview of social welfare and social work as a profession in context of social work values and ethics. Includes critical analysis of historical and current interactions of social welfare policies, programs, and services with diverse recipient populations. | GR | LE | Lecture
| Spring 2021 | AFS6990 | 6990 | Special Topics | AFS | Afr /Afr Amer Studies | 3 | Selected topics relevant to historical and current issues in African and African American Studies. | GR | LE | Lecture
| Spring 2021 | SW6210 | 6210 | SW Practice I | SW | Social Work | 0 | Development of an understanding of the knowledge base and values of social work practice; acquisition of basic skills through the use of role-playing and simulated interviewing process. Attention given to micro levels systems, emphasizing the interactions of micro systems with mezzo and macro level systems. | GR | LE | Lecture
| Spring 2021 | OIS1010 | 1010 | Professional Devel I | OIS | Office Information Systems | 1 | Professional development in office procedures, dress, personality, leadership, and other aspects of business etiquette. | UG | LE | Lecture
| Spring 2021 | STT4240 | 4240 | Stat Quality Control | STT | Statistics | 3 | Statistical process control for attributes and variables data: probability distributions, sampling plans, control charts, statistical control, process capability, process improvement, tolerance intervals, evolutionary operation, and applications. | UG | LE | Lecture
| Spring 2021 | MP4360 | 4360 | Studies in MP Production | MP | Motion Picture | 3 | Intensive study of a selected area of motion picture production. Topics vary. | UG | LL | Lecture/Lab Combination
| Spring 2021 | MTH8300 | 8300 | Topics in Analysis | MTH | Mathematics | 1 | Selected advanced topic or topics in analysis. | GR | IS | Independent Study
| Spring 2021 | MKT3100 | 3100 | Con & Org Buyer Behavior | MKT | Marketing | 3 | Examines psychological, economic, societal and cultural influences on consumer decisions. Explores the nature and scope of industrial or business-to-business markets. Differentiates between consumer industrial marketing in project management, pricing, promotion and distribution. | UG | LE | Lecture
| Spring 2021 | ME6860 | 6860 | Metal Forming | ME | Mechanical and Materials Engr | 3 | Fundamentals of principal deformation processing systems including forging, extrusion, rolling, and sheet forming; material response and formability; and mechanics and analysis of selected processes. | GR | LL | Lecture/Lab Combination
| Spring 2021 | GER1150 | 1150 | German for Read Knowld | GER | German | 3 | Introduction to all main points of grammar; practice in recognizing grammatical constructions and using a dictionary; and selected readings of adult-level texts from various fields. May be taken for letter grade or pass/unsatisfactory. | UG | LE | Lecture
| Spring 2021 | EC6460 | 6460 | Gender Econ Policy Intl | EC | Economics | 3 | Overview of feminist analysis of economic policy in developing and developed nations. Topics include: valuing women's unpaid work, gender bias in public spending, tax policy, property rights, population policy, and regulation of advertising. | GR | LE | Lecture
| Spring 2021 | REL3440 | 3440 | Hinduism | REL | Religion | 3 | Explores major beliefs and practices of Hinduism. | UG | LR | Lecture/Recitation Combination
Spring 2021  PLS3350  3350  The American Presidency  PLS  Political Science  3  General political functions, roles, and structure of the presidential office; limits and opportunities of presidential power; relations with Congress, courts, bureaucracy, the public, and the political party; and presidential personality.

UG  LE  Lecture

Spring 2021  SPN5210  5210  SPN Conv and Writing  SPN  Spanish  3  Oral and written composition in Spanish; writing techniques and grammar review. Taught in Spanish.

GR  LE  Lecture

Spring 2021  TIH4150  4150  Singing for Actor VII  TH  Theatre  1  Private singing lessons for acting, theatre studies and dance majors only.

UG  ST  Studio

Spring 2021  WGS4990  4990  Independent Study  WGS  Women, Gender, and Sexuality  1  Supervised individual research on selected topics. Limited to students with minimum 3.0 GPA. Student must submit application for Independent Study to the Program Director at least 6 weeks prior to the start of the semester in which the independent study will be conducted.<b>Department Managed Prerequisite(s): Undergraduate level WGS 3600 Minimum Grade of C-<b>

UG  IS  Independent Study

Spring 2021  PSY2030  2030  Careers in Clinical Psy  PSY  Psychology  1  Help students explore the field of Clinical Psychology by learning about different career paths and educational options within the field. Also, students will be introduced to some of the various opportunities that are available to those who pursue clinical psychology.

UG  LE  Lecture

Spring 2021  NUR7801  7801  Prime Care Women/Child  NUR  Nursing  6  Provides the nurse practitioner with knowledge and skills needed to deliver primary health care to women, children and adolescents in multiple settings. Emphasizes the application of problem identification and management, health promotion, and client and family counseling. Clinical and supervised lab experiences focus on foundations of nurse practitioner practice, initial role identification and opportunity to apply classroom and core content.

GR  LE  Lecture

Spring 2021  IHE6410  6410  Tech Based Vent  IIE  Industrial & Hum Fac Engr  3  Train students on methods to develop breakthrough products with an entrepreneurial perspective and managerial outlook. Topics include advanced product development, protecting intellectual property, fostering strategic and creative thinking, effectively leading technology-driven teams.

GR  LE  Lecture

Spring 2021  SAA7660  7660  Adv Sem in Stu Affairs  SAA  Student Affairs in Higher Ed  3  Provides an opportunity for advanced students to explore current issues and future trends in higher education with focus on the influence on student affairs practice.

GR  SE  Seminar

Spring 2021  MKT7850  7850  Special Topics in Mk  MKT  Marketing  3  Seminars in marketing - related topics.

GR  LE  Lecture

Spring 2021  MIF7890  7890  Research in MI  MI  Microbiology & Immunology  1  Students will complete their research and/or thesis under the guidance of a faculty member.

GR  LB  Lab

Spring 2021  MIL3011  3011  Adaptive Team Ldrshp Lab  MIL  Military Science  0  Prepares cadet for six-week summer Leadership Development and Assessment Course. Cadet is required to lead squads of 9-12 in battle drills and patrolling in this cadet-led and cadre-supervised lab. Participation in weekly two-hour leadership lab, three weekly physical fitness classes and weekend training exercises is required.

UG  LB  Lab

Spring 2021  SOC5800  5800  Population and Society  SOC  Sociology  3  Introduction to factors influencing the structure and growth of human populations and the social consequences of population change. Emphasizes patterns of fertility, mortality, and migration in today's societies and methods and materials used to study populations.

GR  LE  Lecture

Spring 2021  PSI8010  8010  History & Systems Psych  PSI  Professional Psychology  3 Reviews key historical events and personalities who have contributed significantly to psychology as a philosophy, scientific discipline and profession.

GR  LE  Lecture

Spring 2021  EES7000  7000  Prin Instruction in EES  EES  Earth & Environmental Sciences  1  A survey of available instructional materials and discussion of educational theory and techniques leading to more effective instruction. For graduate teaching assistants only. One hour lecture.

GR  LE  Lecture

Spring 2021  SOC6700  6700  Explaining Crime  SOC  Sociology  3  Provides students with a sound understanding of theories of crime and how they operate within society as part of our understanding of the criminal justice system.

GR  LE  Lecture

Spring 2021  RHB7000  7000  Foundations of Rehab  RHB  Rehabilitation  3  Explores the historical issues of rehabilitation counseling, working with people who have disabilities, and people first terminology. Additional components include interviewing an individual who has a disability and visiting a rehabilitation facility.

GR  LE  Lecture

Spring 2021  EES4700  4700  Intern Career Analysis  EES  Earth & Environmental Sciences  1  Environmental internship, followed by group projects to evaluate current and near-future career opportunities within environmental health science.

UG  LE  Lecture

Spring 2021  EEE4840  4840  Intro Machine Learning  EE  Electrical Engineering  3  Introduction to the field of probabilistic machine learning. Examples are drawn from sensor signal exploitation, biology, text processing, computer vision, and robotics. Key techniques are demonstrated and implemented in MATLAB.

UG  LE  Lecture

Spring 2021  EDL7720  7720  Ed Administrative Behav  EDL  Educational Leadership  3  Develops an understanding of the principles of educational administrative processes, formal school structures and organization, and an introduction to school administrative task areas.

GR  LE  Lecture
<p>| Spring 2021 | PHL3110 | 3110 | Ethics | PHL | Philosophy | 3 | Critical examination of major issues and problems of contemporary philosophical ethics. Concepts of good, bad, right, wrong, and justice. Relation between ethics and religion. Objectivity or subjectivity of values. | UG | LE | Lecture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spring 2021 | PLS6750 | 6750 | Weapons of Mass Destruction | PLS | Political Science | 3 | Examines various issues relating to weapons of mass destruction, including their manufacture, use, effects, and the politics surrounding decisions to acquire them. | GR | LE | Lecture |
| Spring 2021 | RUS2020 | 2020 | Intermediate Russian II | RUS | Russian | 3 | Grammar review, reading, and discussion of selected texts with practice in speaking and writing. Taught in Russian. | UG | LE | Lecture |
| Spring 2021 | CHM7180 | 7180 | Chem Process in Environ | CHM | Chemistry | 3 | Skills are developed to predict behavior and movement of chemical contaminants in atmospheric, aquatic, and soil systems. Physical and chemical properties of contaminants and environmental interactions are evaluated to determine their ultimate fate. | GR | LE | Lecture |
| Spring 2021 | EES4430 | 4430 | Analy &amp; Pred Complex Sys | EES | Earth &amp; Environmental Sciences | 3 | Quantitative analysis and probabilistic forecasting of the behavior of complex nonlinear natural and human systems. Methods of analysis include fractals to quantify spatial, size, and temporal scaling and chaos to study sensitivity to initial conditions and feedback. Modeling includes self-organization and cellular automata. Systems studied include seismology, chemistry, biochemistry, hydrology, medicine, geography, and coupled human and natural systems. | UG | LE | Lecture |
| Spring 2021 | FIN2210 | 2210 | Financial Management I | FIN | Finance | 3 | Introduces basic concepts, principles, and analytical techniques of financial management. Topics include financial planning and analysis, risk and return, time value of money, cost of capital, capital budgeting, and capital structure. | UG | LE | Lecture |
| Spring 2021 | STT7300 | 7300 | Adv Topics Biostatistics | STT | Statistics | 3 | Statistical theory and analysis of data relating to advanced topic in biostatistical applications. Department Managed Prerequisite(s): Graduate level STT 6620 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D. | GR | LE | Lecture |
| Spring 2021 | FR6210 | 6210 | Lit of the Middle Ages | FR | French | 3 | Selected medieval texts: epic poems, romances, and plays. Taught in French. | GR | LE | Lecture |
| Spring 2021 | SAA6652 | 6652 | Intrn Internship in SAHE | SAA | Student Affairs in Higher Ed | 3 | This higher education field-based experience provides students with supervision and advanced professional practice in direct service delivery and organizational consultation outside of the continental United States. | GR | IN | Internship |
| Spring 2021 | MIL1011 | 1011 | Leadership Dev Lab | MIL | Military Science | 0 | Application of techniques introduced in the Army organizational structure, customs and courtesies in cadet-led, cadre-supervised lab. Mandatory weekly two-hour leadership lab, three weekly physical fitness classes and weekend training exercises for all contracted cadets. | UB | LB | Lab |
| Spring 2021 | TH2380 | 2380 | Movement I | TH | Theatre | 2 | Study of physical alignment, improvisation, warm-up methods, and exploration of movement dynamics as they relate to acting. A range of established disciplines will be incorporated in this study. | UB | ST | Studio |
| Spring 2021 | MTH2330 | 2330 | Differential Equations | MTH | Mathematics | 3 | Elementary first order equations, linear equations, existence and uniqueness, phase line and plane, linear systems, Laplace transform, and applications. | UG | LE | Lecture |
| Spring 2021 | STT3630 | 3630 | Engineering Statistics | STT | Statistics | 3 | Introduction to probability, distributions, and statistical methods; using calculus to develop the necessary theory. Use of computer software package (e.g., Matlab) for statistical analysis. | UG | LE | Lecture |
| Spring 2021 | EE7510L | 7510L | Dig Wideband Roc Des Lab | EE | Electrical Engineering | 1 | New laboratory components using Matlab/Simulink, Xilinx System Generator, Xilinx ISE and FPGA will be developed to engage students in the learning process and give them hands-on examples to connect with the theory aspects. Department Managed Prerequisite(s): Graduate level EE 6000 Minimum Grade of D and Graduate level EE 6620 Minimum Grade of D. | GR | LB | Lab |
| Spring 2021 | MIS4600 | 4600 | GIS for Business | MIS | Management Information Systems | 3 | Principles, tools, and techniques of geographic information systems. Creation, management, and use of geographic data in business-related decision making. | UG | LL | Lecture/Lab Combination |</p>
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
<td>Spring 2021</td>
<td>CS3260</td>
<td>3</td>
<td>CS Numerical Methods</td>
<td>Numerical methods for the sciences using modern programming languages. Solution of linear and nonlinear equations, symmetric matrix eigenvalue problems, interpolation, and least squares. Initial value and boundary value problems for representative systems governed by ordinary and partial differential equations are also solved numerically.</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ME1020</td>
<td>1020</td>
<td>Engg Prog with Matlab</td>
<td>Introduces a broad range of programming concepts using Matlab. Covers concepts such as functions, loops, logic control, graphical user interface generation, computer IQ, and communication between disparate languages.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX8005</td>
<td>8005</td>
<td>Med Bio Defense</td>
<td>This course will provide an overview understanding of the most important biodefense and emerging infectious agents, their epidemiology, pathogenesis, animal models, and medical/environmental countermeasures with reference to regulatory requirements.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB3900</td>
<td>3900</td>
<td>Scientific Communication</td>
<td>Reading, comprehending, and generating scientific literature in Biochemistry and Molecular Biology. Integrated Writing course.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB4100</td>
<td>4100</td>
<td>Senior Reflection</td>
<td>Preparing students to enter the workforce. Reflections on the BMB program and courses. Self-evaluations and a culminating senior project.</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE3700</td>
<td>3700</td>
<td>Writing Methods &amp; Mat</td>
<td>Study of emerging writing in early childhood and the methods and materials needed to facilitate oral and written communication.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS7010</td>
<td>7010</td>
<td>Intro Graduate Research Music</td>
<td>This course explores methods of scholarly investigation in music history, theory, and education with attention to music bibliography and emphasis on individual projects and reports.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY7040</td>
<td>7040</td>
<td>Social Psychology</td>
<td>Theories and data on social behavior will be reviewed. Topics will include attitude and attitude change, social perception, prejudice, and group decision-making. Possible applications will be discussed.</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED2600</td>
<td>2600</td>
<td>Intro to Education</td>
<td>Orientation to the teaching profession and pluralistic American society as well as an awareness of the global community. Integrated Writing course.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH4310</td>
<td>4310</td>
<td>Real Variables I</td>
<td>The real number system, inequalities, completeness, limits, sequences and the Cauchy criterion, functions, continuity, differentiability, the mean value theorem, L'Hospital's rule, Taylor's theorem, the Riemann integral, fundamental theorem of calculus, approximate integration, improper integrals. Integrated Writing course.</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATR2840</td>
<td>2840</td>
<td>Basic Skills in AT</td>
<td>Basic skills in Athletic Training.</td>
<td>Clinical</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DOS9100</td>
<td>9100</td>
<td>Doc Indpt Stdy in Ldrship</td>
<td>For doctoral students interested in a guided exploration of a specific topic in organizational studies.</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM8450</td>
<td>8450</td>
<td>Sel Topics in Organic</td>
<td>Selected topics in the field of organic chemistry, such as organic spectroscopy, heterocyclic chemistry, organometallic chemistry, and the chemistry of natural products.</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>HED1230</td>
<td>1230</td>
<td>Personal Health</td>
<td>Basic concepts and skills needed to adopt and maintain a healthy lifestyle.</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PSY5310</td>
<td>5310</td>
<td>Personality Psychology</td>
<td>Survey of contemporary perspectives in personality psychology. Compares research methods, assessment strategies, and applications.</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PHY4610</td>
<td>4610</td>
<td>Intro to Quantum Mechanics II</td>
<td>Introduction to the theoretical foundations of quantum theory. The Schrodinger and Heisenberg formulations of the harmonic oscillator, the hydrogen atom, the theory of quantized angular momentum, and scattering. Hilbert space, operators, commutation relations, and the Heisenberg uncertainty principle are included.</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MUE6990</td>
<td>6990</td>
<td>Collegiate Chorale</td>
<td>Development of choral and vocal skills. Emphasis on advanced choral concert repertoire representing a wide range of historical and compositional styles. Audition required.</td>
<td>Lecture/Lab Combination</td>
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<td>Spring 2021</td>
<td>MUE4480</td>
<td>4480</td>
<td>University Clarinet Choir</td>
<td>MUE</td>
<td>Music: Ensembles</td>
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<td>Spring 2021</td>
<td>BMB7030</td>
<td>7030</td>
<td>Research Ethics</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
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<tr>
<td>Spring 2021</td>
<td>URS6300</td>
<td>6300</td>
<td>Nonprofit Administration</td>
<td>URS</td>
<td>Urban Affairs</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR8815</td>
<td>8815</td>
<td>Find Schup of Hlkcare Analysis</td>
<td>NUR</td>
<td>Nursing</td>
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<tr>
<td>Spring 2021</td>
<td>CS3300</td>
<td>3300</td>
<td>Comp Sys &amp; Structures</td>
<td>CS</td>
<td>Computer Science</td>
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<tr>
<td>Spring 2021</td>
<td>SPN5310</td>
<td>5310</td>
<td>Survey of Spanish Lit</td>
<td>SPN</td>
<td>Spanish</td>
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<tr>
<td>Spring 2021</td>
<td>URS6230</td>
<td>6230</td>
<td>Ethics &amp; Leadership</td>
<td>URS</td>
<td>Urban Affairs</td>
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<tr>
<td>Spring 2021</td>
<td>NUR8925</td>
<td>8925</td>
<td>DNP Scholarly Project</td>
<td>NUR</td>
<td>Nursing</td>
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<td>Spring 2021</td>
<td>EDS6481</td>
<td>6481</td>
<td>Professional Seminar: MI</td>
<td>EDS</td>
<td>Education - Special Education</td>
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<td>Spring 2021</td>
<td>URS6970</td>
<td>6970</td>
<td>NLA Internship</td>
<td>URS</td>
<td>Urban Affairs</td>
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<td>Spring 2021</td>
<td>DAN3990</td>
<td>3990</td>
<td>Studies Selected Subject</td>
<td>DAN</td>
<td>Dance</td>
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<td>Spring 2021</td>
<td>ENG7120</td>
<td>7120</td>
<td>Rhetoric</td>
<td>ENG</td>
<td>English</td>
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<td>PSY4430</td>
<td>4430</td>
<td>Psychometrics Capstone</td>
<td>PSY</td>
<td>Psychology</td>
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<tr>
<td>Spring 2021</td>
<td>EE4550L</td>
<td>4550L</td>
<td>IC Hdwr Socety&amp;Trst Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
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<tr>
<td>Spring 2021</td>
<td>ED4520</td>
<td>4520</td>
<td>AYA Science Methods</td>
<td>ED</td>
<td>Education</td>
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<td>Spring 2021</td>
<td>FIN4860</td>
<td>4860</td>
<td>Internship in FIN Serv.</td>
<td>FIN</td>
<td>Finance</td>
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<td>Spring 2021</td>
<td>FR5830</td>
<td>5830</td>
<td>Applied Elementary Lang</td>
<td>FR</td>
<td>French</td>
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<td>Spring 2021</td>
<td>RHB3700</td>
<td>3700</td>
<td>Independent Study Rehab</td>
<td>RHB</td>
<td>Rehabilitation</td>
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<td>Spring 2021</td>
<td>MLB4990</td>
<td>4990</td>
<td>Medical Lab Op and Ed</td>
<td>MLB</td>
<td>Medical Laboratory Science</td>
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<td>Internship Type</td>
<td>Co-requisites</td>
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<td>EE3520L</td>
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<td>Dig &amp; Fdbck Cont Sys Lab</td>
<td>EE</td>
<td>UG</td>
<td>Lab</td>
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<td>BME3540</td>
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<td>Intro to Comp for BME</td>
<td>BME</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>HED3320</td>
<td>3.0</td>
<td>Advanced Prop Writin</td>
<td>CS</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>PPH6500</td>
<td>3.5</td>
<td>Health Resource Mgmt &amp; P</td>
<td>PPH</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>CS7910</td>
<td>3.0</td>
<td>Introductory Alegbra</td>
<td>DEV</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>NUR3420C</td>
<td>3.5</td>
<td>Nurs Care Mental Health Clin</td>
<td>NUR</td>
<td>UG</td>
<td>Clinical</td>
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<tr>
<td>HED3320</td>
<td>3.0</td>
<td>Diverse Needs in Health</td>
<td>HED</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>PPS2420</td>
<td>3.0</td>
<td>Psychology Men and Women</td>
<td>PSY</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>EDL9970</td>
<td>3.0</td>
<td>Dist Lvl Lic Prog Exit</td>
<td>EDL</td>
<td>UG</td>
<td>Seminar</td>
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<tr>
<td>PPH7520</td>
<td>3.5</td>
<td>Problems in Pop Hlth</td>
<td>PPH</td>
<td>UG</td>
<td>Lecture</td>
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<td>Quarter</td>
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<tr>
<td>Spring 21</td>
<td>ATH3000 3000</td>
<td>3</td>
<td>Peoples of Native America</td>
<td>ATH Anthopology</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>BME6990 6990</td>
<td>1</td>
<td>Graduate independent studies in advanced biomedical engineering. Topics vary.</td>
<td>BIME Biomedical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ME4620 4620</td>
<td>2</td>
<td>Introduces experimental methods needed to perform mechanical testing and the impact of microstructure on the mechanical properties of materials. Fomal lab reports.</td>
<td>ME Mechanical and Materials Engr</td>
<td>2</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PHL5780 5780</td>
<td>3</td>
<td>Study of major ethical problems arising in medical settings. Issues include the value of human life, abortion, euthanasia, the status of advanced directives, cloning, and genetic enhancement.</td>
<td>PHL Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Spring 21</td>
<td>FR4530 4530</td>
<td>3</td>
<td>Romantics, symbolists, decadents, and surrealists, including Baudelaire, Rimbaud, Verlaine, Mallarmé, Apollinaire and Prévèrt. Taught in French. Integrated Writing course.</td>
<td>FR French</td>
<td>3</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BME4980 4980</td>
<td>1</td>
<td>Undergraduate special topics in advanced biomedical engineering. Topics vary.</td>
<td>BIME Biomedical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ES7090 7090</td>
<td>1</td>
<td>Explores current topics and contemporary research projects and ideas in Environmental Sciences.</td>
<td>ES Environmental Sciences</td>
<td>1</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED56010 6010</td>
<td>3</td>
<td>Examines the psychological, physiological, social and educational characteristics of individuals with classic autism, pervasive developmental delay, Rett syndrome, Asperger's syndrome and childhood disintegrative disorder, including prevalence, diagnosis, underlying characteristics and strengths of these individuals.</td>
<td>EDS Education - Special Education</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>PL5730 7300</td>
<td>3</td>
<td>Focuses on research emphasizing the comparative analysis of political systems and cultures, including mass and elite behavior in democratic and non-democratic regimes.</td>
<td>PLS Political Science</td>
<td>3</td>
</tr>
<tr>
<td>Spring 21</td>
<td>FR4530 4530</td>
<td>3</td>
<td>Hegel and Schopenhauer; Kierkegaard and Nietzsche's critique of rationalism on behalf of concrete existence; and Marx's synthesis of idealism's optimism about humanity's ability to shape its world and a commitment to the material world over the ideal.</td>
<td>FR French</td>
<td>3</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED4560 4560</td>
<td>3</td>
<td>Explores computer information science as a discipline that encourages inquiry, creativity and collaboration. This includes lesson planning, creation of a nurturing learning environment, assessment, differentiation, technology and content for computer science courses.</td>
<td>ED Education</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>MGT4830 4830</td>
<td>1</td>
<td>Independent study to explore an area of particular interest in management or international business.</td>
<td>MGT Management</td>
<td>1</td>
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<tr>
<td>Spring 21</td>
<td>ME4950 4950</td>
<td>3</td>
<td>Research, design, or project in mechanical or materials engineering.</td>
<td>ME Mechanical and Materials Engr</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>MIS7900 7900</td>
<td>1</td>
<td>The Capstone IT Project provides students the opportunity to individually explore a problem or issue within the IT field study. This course has a fee that is non-refundable once the term begins.</td>
<td>MIS Management Information Systems</td>
<td>1</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSY4020 4020</td>
<td>4</td>
<td>Methods and techniques necessary for more advanced statistical applications, as well as those specific to computer programs instrumental in the design, analysis, and interpretation of behaviorally oriented research.</td>
<td>PSY Psychology</td>
<td>4</td>
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<tr>
<td>Spring 21</td>
<td>ED6640 6640</td>
<td>3</td>
<td>Focuses on theoretical issues and practical problems of teaching English at all levels, including developing media competence and teaching media literacy.</td>
<td>ED Education</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>ED5060 5060</td>
<td>3</td>
<td>Methods for teaching 4th, 5th, and 6th grades social studies pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula, and materials.</td>
<td>EDS Education</td>
<td>3</td>
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<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>School</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6920</td>
<td>Internship in Writing</td>
<td>ENG</td>
<td>3</td>
<td>Supervised professional writing in workplace setting.</td>
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<tr>
<td>Spring 2021</td>
<td>MUS2170</td>
<td>Orch. Strings and Guitar</td>
<td>MUS</td>
<td>1</td>
<td>The study of materials, equipment, and class instruction in basic playing and teaching string instruments and use of guitar in the elementary classroom.</td>
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<tr>
<td>Spring 2021</td>
<td>CEG7380</td>
<td>Cloud Computing</td>
<td>CEG</td>
<td>3</td>
<td>Students will learn the major concepts in cloud computing and large-scale data intensive parallel processing. They will learn to use existing cloud computing platforms (e.g., Amazon EC2) to solve large-scale data intensive problems. They will also learn to program with large-scale parallel processing methods (e.g., mapreduce).&lt;br&gt; Department Managed Prerequisite(s): Undergraduate level CS 5100 Minimum Grade of D and Undergraduate level CEG 6350 Minimum Grade of D;&lt;br&gt;</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR3980</td>
<td>Studies in Select Subj</td>
<td>FR</td>
<td>1</td>
<td>Individual research project approved and supervised by a full-time faculty member. Taught in French.&lt;br&gt; Department Managed Prerequisite(s): Undergraduate level FR 3110 Minimum Grade of D or Undergraduate level FR 3120 Minimum Grade of D or Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D;&lt;br&gt;</td>
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<tr>
<td>Spring 2021</td>
<td>CHM3560</td>
<td>Phys Chem-Life Sci</td>
<td>CHM</td>
<td>3</td>
<td>Ideas of physical chemistry, including thermodynamics, properties of liquids and solids, solution properties, and kinetics. Intended for biologists, geologists, physicists, premedical students and others with an interest in physical chemistry.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4020</td>
<td>Current Lit in Biology</td>
<td>BIO</td>
<td>3</td>
<td>Uses current research articles to develop critical thinking skills. Designed for advanced undergraduate or beginning graduate students. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH2100</td>
<td>Climate Change &amp; Health</td>
<td>PPH</td>
<td>3</td>
<td>Awareness about our changing climate and climate adaptation. Students will learn about changing climate such as extreme weather events, hurricanes, floods, fires, increasing temperature and climate's direct impact on human health including heat-related disorders, infectious diseases, respiratory and allergic disorders, malnutrition, and mental health problems. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS7030</td>
<td>ICP Research Design</td>
<td>PLS</td>
<td>3</td>
<td>Addresses fundamentals of qualitative and quantitative research in social science with emphasis on skills needed to complete master's thesis or project.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6890</td>
<td>AYA/MA Capstone Research</td>
<td>ED</td>
<td>3</td>
<td>Initiation of a research project as a reflective investigation and progressive problem solving effort by individuals or groups to improve the quality of education in an AYA/MA educational environment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS4950</td>
<td>IS Proj Mgt &amp; Develop</td>
<td>MIS</td>
<td>3</td>
<td>Introduces concept, practice, and the importance of project management. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing IS projects. Student teams will be assigned to an information systems business problem of a firm or organization in the Dayton metropolitan area. Teams analyze, design, implement, evaluate, and develop an information system while applying project management practices.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB4020</td>
<td>Research Perspectives</td>
<td>BMB</td>
<td>4</td>
<td>Acquaints students with the research being carried out by faculty in the Biochemistry and Molecular Biology program.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4530</td>
<td>Soviet Successor States</td>
<td>PLS</td>
<td>3</td>
<td>Examines the political life in the former Soviet Union, with emphasis on the legacy of communism and the role of economics and politics in the transition to democracy. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB4700</td>
<td>Special Topics</td>
<td>RHB</td>
<td>3</td>
<td>Independent study in areas of interest to students that are not readily available in any existing course. Topics vary. May be taken for letter grade or pass/unsatisfactory.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME6703</td>
<td>Medical Imaging</td>
<td>BME</td>
<td>4</td>
<td>Overview of the various methods used in generating images in medicine. Basic principles of the image-forming process and the physical properties of the resultant image are discussed.&lt;br&gt; Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D and Undergraduate level ANT 2120 Minimum Grade of D or Undergraduate level ANT 3120 Minimum Grade of D;&lt;br&gt;</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS1310</td>
<td>Beg Guitar Class I</td>
<td>MUS</td>
<td>3</td>
<td>Focuses on the development of good playing habits through melody and chord playing. Tuning, care of the guitar, and tablature reading covered, various guitar styles demonstrated. Students provide own instruments. Electric guitars not suitable.</td>
</tr>
</tbody>
</table>
### Art Education

**Course:** Experimental Nanoscience  
**Code:** ME4680  
**Credits:** 4  
**Department:** ME  
**Type:** Lecture  
**Description:** Laboratory experiments 1) fabrication of nanomaterials; 2) characterization of physical and chemical properties; and 3) computational modeling of nanoscale physical phenomena.  
**Prerequisites:** Department Managed Prerequisite(s): (Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 1120 Minimum Grade of D and Undergraduate level PHY 1120L Minimum Grade of D) or (Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 1210 Minimum Grade of D and Undergraduate level PHY 2410 Minimum Grade of D and Undergraduate level PHY 2410L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Computer Engineering  
**Code:** CEG7020L  
**Credits:** 7  
**Department:** CEG  
**Type:** Lecture  
**Description:** Required lab for EE 7520.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level EE 4130 Minimum Grade of D and Undergraduate level EE 4170L Minimum Grade of D and Undergraduate level EE 4130L Minimum Grade of D and Undergraduate level EE 4170L Minimum Grade of D.  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Low Pwr VLSI Sys Des Lab  
**Code:** EED4650  
**Credits:** 4  
**Department:** EED  
**Type:** Lecture  
**Description:** Study of assessments, reading strategies, reading materials and techniques needed to assist struggling readers in grades P-5.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D and Undergraduate level PHY 1120 Minimum Grade of D and Undergraduate level PHY 1120L Minimum Grade of D) or (Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D and Undergraduate level PHY 2410 Minimum Grade of D and Undergraduate level PHY 2410L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Writing Workshop Level 3  
**Code:** EEDP0320  
**Credits:** 0  
**Department:** EED  
**Type:** Lecture  
**Description:** Writing workshop (revision, editing and lab) for high-Intermediate ESL students. This course has a fee that is non-refundable once the term begins.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Phil of State & Soc  
**Code:** PHIL2100  
**Credits:** 3  
**Department:** PHIL  
**Type:** Lecture  
**Description:** An examination of the ongoing political debate within our culture, including an examination of the role government should play in a good society. Among the questions to be considered: Should governments exist? If so, how much power should they possess, and to what end should they exercise this power? This course is, with EC 2100, part of a two-course Wright State Core sequence on government and society.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level EE 4130 Minimum Grade of D and Undergraduate level EE 4170L Minimum Grade of D.  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Digital Cont Sys Lab  
**Code:** EE4170L  
**Credits:** 4  
**Department:** EE  
**Type:** Lecture  
**Description:** Application and testing of control systems theory with electromechanical systems.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level EE 4130 Minimum Grade of D and Undergraduate level EE 4170L Minimum Grade of D and Undergraduate level EE 4130L Minimum Grade of D.  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** AYA Int II: Std Teach  
**Code:** ED4850  
**Credits:** 4  
**Department:** ED  
**Type:** Lecture  
**Description:** Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades 7-12 in Integrated Language Arts, Social Studies, Science, or Mathematics.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Research Methods Psy I  
**Code:** PSY3010  
**Credits:** 3  
**Department:** PSY  
**Type:** Lecture  
**Description:** Basics of experimentation, data analysis and writing using the American Psychological Association (APA) style. Integrated Writing course.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level PHY 1120L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Personal Fin Decision  
**Code:** FIN2050  
**Credits:** 3  
**Department:** FIN  
**Type:** Lecture  
**Description:** Overview of the theories, concepts, and principles of personal financial management, with an emphasis on daily financial decision-making. Emphasis is on: 1) goal setting and everyday financial decision-making as they influence long-term goals, and 2) understanding macro-economics and financial systems as they influence individual's lives. Topics covered include personal financial statements, consumer debt management, insurance and retirement and estate planning.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Princ Food Proc Eng Lab  
**Code:** FAS2160  
**Credits:** 3  
**Department:** FAS  
**Type:** Lecture  
**Description:** Application of food process engineering principles to solve technical problems in food processing.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Biopsychosoc Aspects  
**Code:** RHB7070  
**Credits:** 3  
**Department:** RHB  
**Type:** Lecture  
**Description:** Discovery and understanding of biological, psychological, social and spiritual processes associated with addictions. Identification and implementation of current assessment and intervention strategies utilized in the planning and treatment of addictions are addressed.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D and Undergraduate level PHY 1120 Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Phonics and Word Study  
**Code:** ED6080  
**Credits:** 3  
**Department:** ED  
**Type:** Lecture  
**Description:** This course is an introduction to the knowledge of how people learn printed words, how to assess that knowledge and deliver the instructional procedures with appropriate materials.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Physical Polymer Chem  
**Code:** CHM6650  
**Credits:** 3  
**Department:** CHM  
**Type:** Lecture  
**Description:** Introduction to the structural and physical aspects of macromolecules; emphasis on the relationship of polymer structure to physical and mechanical properties.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Rehab Eng Intro Clinical  
**Code:** BMS7480  
**Credits:** 4  
**Department:** BMS  
**Type:** Lecture  
**Description:** Introduces clinical practices and interdisciplinary services provided to individuals with disabilities receiving services from various rehabilitation service delivery systems. Focuses on testing, evaluation, and training in multiple disability specialty areas.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** Latin American History  
**Code:** HST6500  
**Credits:** 3  
**Department:** HST  
**Type:** Lecture  
**Description:** Examines selected Latin American nations and regions (e.g., Mexico, Argentina) and particular topics (e.g., authoritarianism) in detail. Topics vary.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined

**Course:** MA: Vis Arts: C&M I  
**Code:** AED6680  
**Credits:** 3  
**Department:** AED  
**Type:** Lecture  
**Description:** Theoretical / practical methods of teaching multi-age visual arts. Integration of artistic and educational ideas into creative programs as a continuum of issues/skills for the developing art educator with mentorship by master teachers.  
**Prerequisites:** Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level CHM 1210L Minimum Grade of D).  
**Offered:** Spring 2021  
**Location:** Combined
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<th>Type</th>
<th>Time</th>
<th>Year</th>
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<td>KNH2540</td>
<td>2540 Psychology of Sport</td>
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<td>1160 Dance: Latin</td>
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<td>701 Year 4 Medical Study</td>
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<td>ECE5010</td>
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<td>TH4400</td>
<td>4400 Movement IV</td>
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<td>Studio</td>
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<td>7990 Full-time CPT in CS</td>
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<td>MUE2500</td>
<td>2500 Symphonic Band</td>
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<td>4700 Topics Intl Relations</td>
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<td>ME5600L</td>
<td>5600L Exp. Meas. and Instr. Lab</td>
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<td>5680 Hazardous Waste</td>
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<td>Spring 2021</td>
<td>PSY3910</td>
<td>3</td>
<td>Behavioral Neuroscience</td>
<td>Behavioral neuroscience, focusing on functional and sculptural aspects with an emphasis on hand building techniques.</td>
<td>UG</td>
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<td>Ceramics for Non-Majors</td>
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<td>Chamber Singers</td>
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<td>Spring 2021</td>
<td>ME7140</td>
<td>1</td>
<td>Nonlinear Finite Element Analysis</td>
<td>Nonlinear finite element analysis of elastic, plastic, and viscoplastic deformation. Flow formulation and solid formulation. Analysis and simulation of structures and metal forming processes.</td>
<td>GR</td>
<td>LE</td>
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<td>Spring 2021</td>
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<td>Special Problems in MI</td>
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<td>1</td>
<td>Math and Modern World</td>
<td>Math and Modern World</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUE2920</td>
<td>2</td>
<td>Vocal Jazz Ensemble</td>
<td>Vocal Jazz Ensemble</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG5800</td>
<td>2</td>
<td>Enhancing Creativity</td>
<td>Enhancing Creativity</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN6310</td>
<td>3</td>
<td>Sem in Spanish Lit</td>
<td>Sem in Spanish Lit</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7500</td>
<td>2</td>
<td>Seminar in TESOL</td>
<td>Seminar in TESOL</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW4890</td>
<td>4</td>
<td>SW Field Seminar II</td>
<td>SW Field Seminar II</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT5910</td>
<td>3</td>
<td>Statistics for Nursing</td>
<td>Statistics for Nursing</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART5680</td>
<td>2</td>
<td>Printmaking: Lithography</td>
<td>Printmaking: Lithography</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH6200</td>
<td>3</td>
<td>Anth of Women's Health</td>
<td>Anth of Women's Health</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4930</td>
<td>3</td>
<td>Behav Neuro Ed Capstone</td>
<td>Behav Neuro Ed Capstone</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4070</td>
<td>4</td>
<td>Seminar in Political Theory</td>
<td>Seminar in Political Theory</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HEA4920</td>
<td>3</td>
<td>Instruction in Higher Ed</td>
<td>Instruction in Higher Ed</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3190</td>
<td>2</td>
<td>Stage Lighting II</td>
<td>Stage Lighting II</td>
<td>GR</td>
<td>LB</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4180</td>
<td>3</td>
<td>Politics and Ethics</td>
<td>Politics and Ethics</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>NUR4801</td>
<td>3</td>
<td>Nur Role for Unlicensed</td>
<td>Synthesis of concepts, theories, processes, issues of informatics, and models to facilitate a seamless transition of Associate Degree or Diploma prepared nursing student who is awaiting NCLEX passage into professional nursing role.</td>
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<tr>
<td>ME7360</td>
<td>3</td>
<td>Cardio Biofluid Mech</td>
<td>This course describes the intricate relations between the fluid mechanics and biomedical aspects of the cardiovascular system.</td>
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<tr>
<td>CNL7220</td>
<td>3</td>
<td>Group Process Counseling</td>
<td>Serves as an introduction to group practice. Considers interaction patterns and dynamics within small groups, and focuses on understanding of individual and group behavior as they relate to the individuals taking the course.</td>
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<tr>
<td>FR2500</td>
<td>3</td>
<td>Int Fr II Study Abroad</td>
<td>Intermediate French course taught in context of instructor-led study abroad program. Intensive, exclusive use of target language in class and in daily exchanges with native speakers. Focus on communicative skills, oral reception, oral production, comparative culture, and etiquette.</td>
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<tr>
<td>EDL9930</td>
<td>3</td>
<td>Sch Dist Finance Bus Mgt</td>
<td>Guiding principles for developing adequate district fiscal programs; study of local, state, and federal revenue sources; and, procedures in management of district funds.</td>
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<tr>
<td>EES4300</td>
<td>4</td>
<td>Env Applications of GIS</td>
<td>Concepts, terminology, data models, and analytical functions of Geographic Information Systems. Availability and processing of digital data, application of GIS as a mapping tool, spatial analysis of environmental and geologic problems. Hands-on exercises and a guided mapping project.</td>
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<tr>
<td>KNH1800A</td>
<td>1</td>
<td>Weight Training:</td>
<td>Fundamental skills and knowledge of Weight Training: Women. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<tr>
<td>EES6780</td>
<td>1</td>
<td>Environ Sciences Seminar</td>
<td>Students examine a range environmental issues using readings both pro and con. They also explore several issues in greater depth and present their findings to the class.</td>
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<tr>
<td>KNH1400A</td>
<td>1</td>
<td>Lifeguard Training</td>
<td>Intermediate level of skills and knowledge in lifeguard training. Competency-based approach. Students should check competency levels posted in physical education building before enrolling.</td>
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<tr>
<td>FR5810</td>
<td>1</td>
<td>Applied Elem Fr Instr</td>
<td>Graduate students assist FR 1010 or FR 1020 course instructors in conducting French classes. Taught in French.</td>
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<tr>
<td>TEG2950</td>
<td>5</td>
<td>Automation Systems</td>
<td>Self-paced learning module applying theory to application in a working automated system. Learners will construct or modify an existing system and deal with new applications and tasks added to the system operation.</td>
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<tr>
<td>IHE7930</td>
<td>1</td>
<td>Non-Thesis Resrch in IHE</td>
<td>M.S. Non-Thesis Research in Industrial and Human Factors Engineering</td>
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<tr>
<td>PHY7210</td>
<td>4</td>
<td>Complexity. in Env. Sys.</td>
<td>Mathematical methods for quantitative analysis and modeling of complex, nonlinear environmental systems. Applications of scaling in space and time, feedback, and self-organization in environmental systems including: ecology, hydrology, global climate change, and geodynamical systems.</td>
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<tr>
<td>SOC4810</td>
<td>3</td>
<td>Health Vulnerable Pops</td>
<td>Overview of health vulnerability and health disparity and key historical events/periods in the development of the American healthcare system, particularly for vulnerable populations. Social, public health, and theoretical issues influencing the multi-faceted barriers to healthcare for specific vulnerable populations.</td>
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<tr>
<td>SCM4810</td>
<td>3</td>
<td>Intern in Management Sci</td>
<td>Faculty-supervised internship in management science. Students work in a firm or public agency, participate in seminars, and submit reports for completion of the course.</td>
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<tr>
<td>CL4920</td>
<td>1.5</td>
<td>Adv Immunohematolog y</td>
<td>Advanced topics in transfusion medicine, including immune hemolytic anemias, paternity testing, component therapy, HLA antigens, quality assurance and the role of regulatory agencies in the practice of transfusion medicine.</td>
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<tr>
<td>SOC6091</td>
<td>1</td>
<td>Studies in Selected Subj</td>
<td>Problems, approaches, and topics in the field of sociology. Topics vary. Credit will not be awarded for repetition of courses with identical topic titles.</td>
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<tr>
<td>IHE8950</td>
<td>1</td>
<td>Dissertation Resrch IHE</td>
<td>Organization and structure of the family and common problem areas. Review of theories of family therapy and treatment strategies of marital and sexual dysfunctions.</td>
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<tr>
<td>PSI9520</td>
<td>3</td>
<td>Family Therapy</td>
<td>Organization and structure of the family and common problem areas. Review of theories of family therapy and treatment strategies of marital and sexual dysfunctions.</td>
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<tr>
<td>Quarter</td>
<td>Course Code</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Credits</td>
<td>Type</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>IHE6400 6400</td>
<td></td>
<td>Engr Econ</td>
<td>IHE</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>Lecture</td>
<td>Introduction to analytical methods and techniques for optimizing the economic outcome of technical and managerial decisions. Includes time value of money, annual costs, present worth, future value, capitalized cost break-even analysis, and valuation and depreciation. Department Managed Prerequisite(s): Undergraduate level EGR 1010 Minimum Grade of D or Undergraduate level MTH 2300 Minimum Grade of D</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PN4880 4880</td>
<td></td>
<td>Ind Reading - Physiology</td>
<td>PN</td>
<td>Physiology &amp; Neuroscience</td>
<td>1</td>
<td>Lecture</td>
<td>Various physiology topics will be discussed with an assigned faculty advisor.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6601 6601</td>
<td></td>
<td>Limnology</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Lecture</td>
<td>Study of the morphological, physical, chemical, and biological characteristics of lakes, bogs, and watersheds. Includes one week of lecture on main campus and one week of field study in northern Wisconsin.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7820 7820</td>
<td></td>
<td>Literacy Inquiry Project</td>
<td>ED</td>
<td>Education</td>
<td>1</td>
<td>Lecture</td>
<td>Continuation of the literacy research from ED 7800. Candidates will complete the following components: data collection, transcription, analysis, dissemination, limitations, and implications for the Master's Research Project. This course involves supervision.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT4310 4310</td>
<td></td>
<td>Stat Meth Clinical Trial</td>
<td>STT</td>
<td>Statistics</td>
<td>3</td>
<td>Lecture</td>
<td>Basic clinical design methodology, types of clinical trials, analysis of trial data, and statistical issues that commonly arise in clinical trials.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4840 4840</td>
<td></td>
<td>Biogeography</td>
<td>BIO</td>
<td>Biology</td>
<td>3</td>
<td>Lecture</td>
<td>Introduction to the factors affecting the distribution of plants and animals.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6550 6550</td>
<td></td>
<td>Aquatic Environ Geochem</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Lecture</td>
<td>Study of the interactions between natural fresh waters and their geologic environments. Included topics are chemical equilibrium concept, Modeling using PHREEQC, carbonate system, water-rock interactions, sorption isotherms, redox reactions, biologic influences on aqueous geochemistry, and applications of environmental isotopes. An independent term project is required. Three hours lecture. 3.0 Credit hours</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7910 7910</td>
<td></td>
<td>MEIE Team Project I</td>
<td>IHE</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>Lecture</td>
<td>First semester of team project for Master in Engineering Innovation and Entrepreneurship program. Students identify, assess and prioritize innovation and entrepreneurship opportunities; form diverse multi-cultural teams with engineering and business expertise; interact with entrepreneurs; gain technical expertise; expand their understanding of the business environment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7590 7590</td>
<td></td>
<td>CMOS RF IC Design</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Lecture</td>
<td>Introduction to the design of Radio Frequency Integrated Circuits using CMOS technology. Topics include S-parameters, noise sources in RF Integrated Circuits, low noise RF amplifiers, RF mixers, RF oscillators and synthesizers, phase lock loops and phase noise. Department Managed Prerequisite(s): Graduate level EE 7580 Minimum Grade of D and Graduate level EE 7580L Minimum Grade of D</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7870 7870</td>
<td></td>
<td>History of Architecture</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Lecture</td>
<td>Introduces students to the history and evolution of North American architecture, with a focus on the social and cultural origins of our historic built environment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1570B 1570B</td>
<td></td>
<td>Soccer: Outdoor &amp; II</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Lecture</td>
<td>Fundamental skills and knowledge of Soccer: Outdoor. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PL56825 6825</td>
<td></td>
<td>Washington DC Internship</td>
<td>PL5</td>
<td>Political Science</td>
<td>3</td>
<td>Lecture</td>
<td>Internships in Washington, DC for academic credit. Interns are expected to work at least 12-15 hours per week and write an assessment of the experience at the end of the semester.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4550L 4550L</td>
<td></td>
<td>Plant Systematics Laboratory</td>
<td>BIO</td>
<td>Biology</td>
<td>0</td>
<td>Lecture</td>
<td>Required laboratory for BIO 4550.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6610 6610</td>
<td></td>
<td>Gender and Crime</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Lecture</td>
<td>Examination of how crime and the criminal justice system are shaped by gendered social forces. Specifically addresses how these forces affect crime-related constituencies including perpetrators, workers, victims/survivors, and society as a whole.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART5480 5480</td>
<td></td>
<td>Painting</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Lecture</td>
<td>Emphasis on pictorial organization with increased attention to the individual student's personal imagery. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6400 6400</td>
<td></td>
<td>Constitutional Law</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Lecture</td>
<td>Cases in which provisions of the Constitution have been judicially interpreted; federal systems; separation of powers; and limits on government.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3030 3030</td>
<td></td>
<td>Research Methods Psych I &amp; II</td>
<td>PSY</td>
<td>Psychology</td>
<td>5</td>
<td>Lecture</td>
<td>An accelerated course combining significant content from the two-course series on research methods in psychology (PSY3010 and PSY3020). Designed for students whose interest and aptitude for statistics and research methodology are above average and would benefit from more challenging instruction. In this course you will be introduced to the basics of psychological research methods, experimentation, data analysis, and writing in American Psychological Association (APA) style. There is an embedded laboratory associated with this class in which you will get experience using methods to analyze data. Integrated Writing course.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Type</td>
<td>Level</td>
<td>Location</td>
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<tr>
<td>Spring 2021</td>
<td>CS4800 1</td>
<td>Web Information Systems</td>
<td>CS 3</td>
<td>Covers topics in building Web-based applications involving variety of data; covers data, metadata, knowledge and ontologies; key Web languages and protocols; search engines, social networking, Web 2.0, semantic web. Good programming skills are prerequisite.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>FAS3100 1</td>
<td>Agriculture Finance</td>
<td>FAS 3</td>
<td>Agriculture finance tools and resources utilized in modern agricultural business operations. Topics include insurance, legal contracts, commodity markets, USDA farm bill programs, taxation, and lending programs.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>NUR3460C 43460C</td>
<td>Nursing Care of Children Clin</td>
<td>NUR Nursing 0</td>
<td>Required clinical for NUR 3460.</td>
<td>UG</td>
<td>CL</td>
<td>Clinical</td>
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<tr>
<td>Spring 2021</td>
<td>GER3820 3820</td>
<td>Applied Elem Ger Instr.</td>
<td>GER German 1</td>
<td>German majors and minors assist GER 1010 or GER 1020 course instructors in conducting classes. Taught in German.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>Spring 2021</td>
<td>EE6190 6190</td>
<td>Intelligent Control Sys EE Electrical Engineering 3</td>
<td>Foundations of fuzzy set theory, system modeling using fuzzy rules, structure of fuzzy controllers and PID fuzzy controller design. Also included are neural network foundations, single and multi-layered perceptions, learning rules, basics of adaptive controls and adaptive neural control.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MTH4460 4460</td>
<td>Modeling Mid Schl Tchr MTH Mathematics 4</td>
<td>Learning to think quantitatively through solving pure and applied mathematics problems and modeling real-world problems. Focuses on working with the steps involved in modeling real-life situations and understanding how modeling and problem solving differ.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>SAA6630 6630</td>
<td>Career Dev. Theory SAA Student Affairs in Higher Ed 2</td>
<td>A variety of career development theories are explored including application to specific client cases. Focus will be on developing helping skills and building effective relationships as well as technology resources available to career advisors.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CS6370 6370</td>
<td>Par Prog Many-Core GPUs CS Computer Science 3</td>
<td>This course will introduce an important trend in high-performance computing, the use of many-core GPUs to solve computation-intensive problems. Students will learn about new many-core GPU architecture, CUDA programming model, memory hierarchy design, parallel programming concepts, and compiling techniques to improve parallelism.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ART2070 2070</td>
<td>Photography I ART Art 3</td>
<td>Exploration of black and white photographic materials and camera techniques. Investigation of aesthetic possibilities and basic processes of the media. Development of personal concepts and aesthetic expression in photography.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>COM6640 6640</td>
<td>Media Literacy COM Communication 3</td>
<td>Analysis of contemporary programming and production practices including the development of critical standards for evaluation.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>TH2570 2570</td>
<td>Singing Mus Theatre III TH Theatre 2</td>
<td>Private singing lessons for musical theatre.</td>
<td>UG</td>
<td>ST</td>
<td>Studio</td>
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<tr>
<td>Spring 2021</td>
<td>URS4290 4290</td>
<td>Issues in City&amp;Communit y Mgmt URS Urban Affairs 3</td>
<td>Issues and topics related to community development agencies and local governments.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>MTH6320 6320</td>
<td>Real Variables II MTH Mathematics 3</td>
<td>Infinite series, sequences and series of functions, power series, taylor series, uniform convergence, topology of R^n, real-valued and vector-valued functions of several variables, derivatives and integrals of functions of several variables.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>ISE4350</td>
<td>4350</td>
<td>Comp Neuroerg &amp; Hist App</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>3</td>
<td>Principles and application of computational methods and technologies to neuroergonomics and neuroengineering: analysis of applications related to brain-system interface and augmented sensory perception; articulation of various methods of non-invasive neuroscience measurements.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>COM3490</td>
<td>3490</td>
<td>Survey of Com Research</td>
<td>COM</td>
<td>Communication</td>
<td>3</td>
<td>Introduction to the behavioral approach and current theories and experiments in communications research. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN2520</td>
<td>2520</td>
<td>Dance History II</td>
<td>DAN</td>
<td>Dance</td>
<td>3</td>
<td>Survey of Western theatrical dance of the twentieth and twenty-first centuries. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX8050</td>
<td>8050</td>
<td>Toxicology</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>Toxicology is the branch of biology that studies toxins and the organisms that produce them. The learning outcome of this course is to develop a clearer understanding of the chemical structures, functions and biological activities of various toxins produced by organisms such as snakes, scorpions, spiders, marine invertebrates, fungi, plants and microbes.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3700</td>
<td>3700</td>
<td>Criminology</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Analysis of major categories of criminal conduct, theories of crime causation, and patterns of criminal activity with particular attention to factors such as class, race, sex, and age.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME4730</td>
<td>4730</td>
<td>Neurophoto&amp;Optical Brain Map</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Covers optical methods for imaging, sensing, and manipulating brain structure and function, functional brain mapping, image-guided neurosurgery, and neuromodulation (optogenetics, low-level light therapy/photobiomodulation, transcranial direct current stimulation, ultrasound modulation). Focuses on brain disease diagnostics, neuromodulation and therapeutics. It provides a comprehensive overview of various methods developed using light, both microscopic and macroscopic techniques and covers state-of-the-art research and development in optical technologies and applications for brain mapping and therapeutics.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6650</td>
<td>6650</td>
<td>Transitions Stu w/Except</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Role of intervention specialists in shaping transition for students with exceptionalities; Focus on high school/adult transition with consideration of transitions at earlier levels. Ten hours field experience with student age 14-22 required.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT7150</td>
<td>7150</td>
<td>Adv Human Embryology</td>
<td>ANT</td>
<td>Anatomy</td>
<td>3</td>
<td>Classical and contemporary issues in human developmental biology. Emphasis is on the clinical relevance of developmental processes, and on modern methods used to study the mechanisms of development.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH7100</td>
<td>7100</td>
<td>PE for Chdrm w/Spec Need</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>3</td>
<td>Provides an overview of the etiological, physical, and psychological considerations of disabilities in an education setting. This course contains methods of adapting activities in physical education for individuals with disabilities.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3290</td>
<td>3290</td>
<td>Choral Music Ed Meth I</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>This course is designed to enable the choral music education student to be successful as a teacher/conductor at all levels, with a primary focus on the elementary and middle school choral music setting.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT1410</td>
<td>1410</td>
<td>Digital Media I</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>Use of a non-linear video editing program to combine audio and video files.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6690</td>
<td>6690</td>
<td>Ed Psych for Educators</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Understand theories of learning, motivation and assessment in the context of preK-12 education.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG5650</td>
<td>5650</td>
<td>Writing Nonfiction</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Advanced strategies for writing nonfiction for non-academic purposes and audiences in various styles, genres, and media.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7850</td>
<td>7850</td>
<td>Act Research Adv Studies</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Course provides introduction to teacher-based action research. Students learn: types of research, types of data, research methodologies, data analyses, and data interpretation within the context of education.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3800</td>
<td>3800</td>
<td>History and Lit I</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Explores a variety of theatrical texts and pertinent history from early historical eras. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3020</td>
<td>3020</td>
<td>Topics in Writing</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Approaches and topics in the field of Writing.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM8970</td>
<td>8970</td>
<td>Chemistry Research</td>
<td>CHM</td>
<td>Chemistry</td>
<td>1</td>
<td>Original research in a CHM faculty laboratory.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT6240</td>
<td>6240</td>
<td>Stat Quality Control</td>
<td>STT</td>
<td>Statistics</td>
<td>3</td>
<td>Statistical process control for attributes and variables data: probability distributions, sampling plans, control charts, statistical control, process capability, process improvement, tolerance intervals, evolutionary operation, and applications.</td>
<td>GR</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Offering</td>
<td>Type</td>
<td>Time</td>
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<tr>
<td>Spring 2021</td>
<td>NUR7123</td>
<td>Pedi Pharm</td>
<td>3</td>
<td>Focuses on the prescriptive knowledge of pharmacologic agents used in the treatment of common pediatric health care problems and stable chronic disease states of children. Emphasis will be placed on indications, mechanisms of action, drug interactions, side effects and parent and child studies.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level JPN 2010 Minimum Grade of D&lt;/b&gt;</code></td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASM7071</td>
<td>Biostatistics</td>
<td>4</td>
<td>Catalogue Description: Studies basic and advanced statistical methods with an emphasis on biomedical problem. Includes sampling techniques, making valid inferences and estimations, testing hypotheses, ANOVA, multiple regression, survey methods, experimental designs, diagnostic testing, and sequential analysis.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level JPN 2010 Minimum Grade of D&lt;/b&gt;</code></td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I4990</td>
<td>Problems in Microbiology</td>
<td>2</td>
<td>Physiological and biochemical processes unique to microorganisms and the host response to microbes.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR7010</td>
<td>Linear Systems</td>
<td>3</td>
<td>Graduate level linear engineering methods in finite and infinite dimensions.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>DAN3110</td>
<td>Modern Dance III</td>
<td>3</td>
<td>Advanced modern technique class for pre-professional dancers. Principles and concepts of Horton technique with continued emphasis on flexibility, strength and coordination.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ENG 2450 Minimum Grade of D or Undergraduate level ENG 4710 Minimum Grade of D&lt;/b&gt;</code></td>
<td>UG</td>
<td>ST</td>
<td>Studio</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>BME4440</td>
<td>Biomaterials</td>
<td>4</td>
<td>Application of materials in different biomedical fields. Design and analyses.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>ED6240</td>
<td>Recert-Read Recovery Course II</td>
<td>3</td>
<td>Teachers deepen their understanding of Clay’s literacy processing theory through contingent instruction based on student data while teaching Reading Recovery students. Key concepts include: teaching for phrased reading, fluent processing and flexible problem solving.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ENG 2450 Minimum Grade of D or Undergraduate level ENG 4710 Minimum Grade of D or Undergraduate level ENG 4940 Minimum Grade of D&lt;/b&gt;</code></td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>IHE7430</td>
<td>Manual Control</td>
<td>3</td>
<td>Description of human control processes and their models. Analyses of human skills and skill typology.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>IHE7320</td>
<td>HF in Virtual Env</td>
<td>3</td>
<td>Techniques for effectively incorporating human factors considerations in the design and development of virtual environments. Includes coverage of input devices, head-mounted displays, health-related issues and measurement of human performance.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level CEG 2170 Minimum Grade of D or Undergraduate level ISE 3540 Minimum Grade of D&lt;/b&gt;</code></td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PHY2460</td>
<td>Concepts in Physics MCE</td>
<td>3.5</td>
<td>Fundamental concepts and applications of physics designed for middle childhood education majors. Topics are integrated with mathematics and include laboratory experiences, demonstrations, and projects. Students may use either PHY 2450 or PHY 2460, but not both courses, to satisfy the requirements of the WSU Core.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC4700</td>
<td>Explaining Crime</td>
<td>3</td>
<td>Theories of crime and how they operate within society as part of our understanding of the criminal justice system. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4790</td>
<td>TEFL Practice &amp; Material</td>
<td>3</td>
<td>Identifies the diverse needs of students learning English as a foreign language and the most effective curriculum development, resources, and teaching techniques to address these needs.   <code>&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ENG 4710 Minimum Grade of D or Undergraduate level ENG 4710 can be taken concurrently&lt;/b&gt;</code></td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT4435</td>
<td>Internship</td>
<td>2</td>
<td>Practical graphic design experience under the joint supervision of a faculty member and a business representative. May be taken for a letter grade or pass/unsatisfactory.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSE9940</td>
<td>Applied Teaching Prac</td>
<td>1</td>
<td>Students are given hands-on experience in assisting faculty in teaching a course or seminar. Issues dealt with are those common to most teaching settings: development of a syllabus, choice of teaching methods, grading/evaluation and obtaining feedback from students.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MI7770</td>
<td>Gene Therapy</td>
<td>3</td>
<td>The molecular basis of gene therapy and the use of viral gene delivery systems for the treatment of human disease are examined. Gene therapy strategies are contrasted with various diseases, including cancer and AIDS.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BMS9940</td>
<td>Introduction to Research</td>
<td>4</td>
<td>Introduces BMS students to the ongoing research activities within the nine program tracks; involves presentations by BMS faculty. Graded pass/unsatisfactory.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>LDR9990</td>
<td>Thesis</td>
<td>1</td>
<td>This course guides implementation of individual Masters/Thesis projects from inquiry and data gathering, through analysis and solution identification, to formal presentation.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
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<td>Description</td>
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<tr>
<td>MUE6450</td>
<td>6450</td>
<td>Collegium Musicum</td>
<td>Collegium Musicum is the generic term for an instrumental and vocal ensemble devoted to the study and performance of early music written before 1750. One period (Medieval, Renaissance, Baroque) will be emphasized each term.</td>
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<tr>
<td>DMV6010</td>
<td>6010</td>
<td>DMV Registration</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH5990</td>
<td>5990</td>
<td>Selected Topics</td>
<td>Selected topics in mathematics. May be taken for letter grade or pass/unsatisfactory.</td>
</tr>
<tr>
<td>HST7220</td>
<td>7220</td>
<td>Sem Early Mod Eur Hst</td>
<td>Examines facets of European history from the Renaissance and Reformation through the French Revolution. Topics vary.</td>
</tr>
<tr>
<td>KNH1270A</td>
<td>1270A</td>
<td>H2O Kickboxing</td>
<td>Fundamental skills and knowledge of H2O Kickboxing. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>BIO3810</td>
<td>3810</td>
<td>Intro to Bioinformatics</td>
<td>Tools-oriented approach to bioinformatics emphasizing DNA data structure, string representation in PERL, data searches, pairwise alignments, substitution patterns, protein structure prediction and modeling, proteomics, and use of web-based bioinformatic tools.</td>
</tr>
<tr>
<td>ME6530</td>
<td>6530</td>
<td>Energy Conversion</td>
<td>Fundamentals of energy and energy conversion, the conversion of energy from mechanical, thermal, chemical, and nuclear sources. To demonstrate these energy forms - generators, wind, ocean, turbines, direct energy conversion, fossil fuels, biofuels, and nuclear power will be presented.</td>
</tr>
<tr>
<td>MTH4260</td>
<td>4260</td>
<td>Matrix Computations</td>
<td>Numerical linear algebra survey using high-level computing tools. Topics include linear equations, matrix factorizations, eigenvalue problems, least squares, applications of singular value decompositions, and iterative methods for large sparse matrices. Emphasizes conditioning of problems and accuracy and stability of algorithms.</td>
</tr>
<tr>
<td>IT2450</td>
<td>2450</td>
<td>Concepts Environ Design</td>
<td>Intro to environmental design and how design works cohesively with the environment.</td>
</tr>
<tr>
<td>PLS4400</td>
<td>4400</td>
<td>Constitutional Law</td>
<td>Examines cases in which provisions of the constitution have been judicially interpreted. Also examines federal systems, separation of powers, and limits on government.</td>
</tr>
<tr>
<td>ED2700</td>
<td>2700</td>
<td>Intro Educational Psychology</td>
<td>Understand how people learn, how to motivate, and assess preK-12 students based on theoretical principles from field of educational psychology. Integrated Writing course.</td>
</tr>
<tr>
<td>REL3820</td>
<td>3820</td>
<td>Sociology of Religion</td>
<td>(Also listed as SOC 3110) General treatment of religion as a social institution, examining the influence of religious ideas and organizations on other social institutions and the influence of society on religion.</td>
</tr>
<tr>
<td>EDS4090</td>
<td>4090</td>
<td>Dyslexia Methods &amp; Assessment</td>
<td>Explore various assessments to administer, analyze, and interpret specifically for learners with dyslexia. Apply assessment knowledge and skills to a struggling learner to create a case study assessment report and plan for specific classroom accommodations.</td>
</tr>
<tr>
<td>STT4210</td>
<td>4210</td>
<td>Sampling Design</td>
<td>Classical sampling designs including simple random sampling, stratified sampling, multi-stage sampling, cluster sampling, and systematic sampling; using auxiliary information and ratio estimators; unequal probability sampling, detectability and line transect methods; composite and ranked-set sampling.</td>
</tr>
<tr>
<td>MGT7510</td>
<td>7510</td>
<td>Applied Ldr Dev</td>
<td>This course focuses on the development of leadership skills for managing in organizations. Multiple perspectives are used to enhance understanding of the course concepts—leading oneself, leading individuals, leading teams and the organizational context of leadership.</td>
</tr>
<tr>
<td>SLI3800</td>
<td>3800</td>
<td>Advanced Interpreting I</td>
<td>Enhancement of the ability to interpret between the source and target languages of ASL and English. Interpreting models, consecutive and team interpreting will be explored. Students will increase interpreting analysis and mental visualization skills.</td>
</tr>
<tr>
<td>ART6110</td>
<td>6110</td>
<td>Adv St Ancient/Classica I</td>
<td>Intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
</tr>
<tr>
<td>ENG3000</td>
<td>3000</td>
<td>Business Writing</td>
<td>Written business and organizational communication; rhetorical demands of writing in professional settings; attention to various forms including short reports and informal oral presentations.</td>
</tr>
<tr>
<td>CHM3190</td>
<td>3190</td>
<td>Chem Lit &amp; Comp</td>
<td>Literature searching of journals, handbooks, abstracts, and patents. Writing of literature reports, abstracts, papers, and reports. Integrated Writing course.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>KNH1660A</td>
<td>Swimming: Beginning</td>
<td>1</td>
<td>Fundamental skills and knowledge of Swimming: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>NEU1010</td>
<td>Intro to Neuroscience Programming</td>
<td>3</td>
<td>Actively engages undergraduate neuroscience majors to create a foundation for academic success. Students will also be introduced to the neuroscience community at Wright State University.</td>
</tr>
<tr>
<td>PTX4005</td>
<td>Medical Biological Defense</td>
<td>3</td>
<td>Provides an understanding of the most important biodefense and emerging infectious agents, their epidemiology, pathogenesis, animal models and medical/environmental countermeasures. Provides a brief review of fundamental microbiology, the immune system, epidemiology, and disease vectors.</td>
</tr>
<tr>
<td>BME4704L</td>
<td>Adv Med Imag Lab</td>
<td>0</td>
<td>Lab for BME 4704.</td>
</tr>
<tr>
<td>SOC6081</td>
<td>Applied Statistics I</td>
<td>3</td>
<td>Introduces probability, random variables and their expectations, some commonly used discrete and continuous distributions, concept of random sampling and sampling distributions. Uses computer software packages for simulating, summarizing, and displaying data.</td>
</tr>
<tr>
<td>PPH7160</td>
<td>Adv Biostat Public Health Prof</td>
<td>3</td>
<td>This class will introduce advanced statistical methods such as regression analysis and survival analysis used in epidemiological and public health research. Students will learn application of these methods using R and SAS software to analyze epidemiological and public health data sets.</td>
</tr>
<tr>
<td>PLC6824</td>
<td>Local/City Internship</td>
<td>3</td>
<td>Intern 12-15 hours per week in a local governmental office. Jobs include working with city managers, mayors, and other city leaders to meet local needs and help with specific projects.</td>
</tr>
<tr>
<td>REL4810</td>
<td>Independent Study</td>
<td>1</td>
<td>Faculty-directed, individualized study on student-selected topics. Limited to majors and advanced students. Permission of department and a minimum 3.0 GPA required.</td>
</tr>
<tr>
<td>TH3400</td>
<td>Movement III</td>
<td>2</td>
<td>Further training in group and solo movement/vocal techniques, intended to expand flexibility and strength of the actor’s instrument, awareness, responsiveness, and instinctual choices.</td>
</tr>
<tr>
<td>MGT7800</td>
<td>Management Internship</td>
<td>3</td>
<td>Graduate students are encouraged to do an internship as part of their program of study. Employing organizations can be located by either the student or the Department.</td>
</tr>
<tr>
<td>URS7080</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Research project for the master’s degree in public administration</td>
</tr>
<tr>
<td>PHY4270</td>
<td>Physics - Remote Sensing</td>
<td>3</td>
<td>Purpose and motivation for remote sensing, spectral temporal, spatial, and radiometric characteristics and resolution issues, propagation of electromagnetic energy, optics, atmospheric effects, image collection and quality, sensor performance measures, platforms and orbits.</td>
</tr>
<tr>
<td>PLS4250</td>
<td>Metro Studies Seminar</td>
<td>3</td>
<td>Explores issues that impact metropolitan development such as pollution, the non-profit sector, and transportation.</td>
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<tr>
<td>PSY9010</td>
<td>Signal Detection Theory</td>
<td>3</td>
<td>Presents signal detection theory in the context of Thurstonian scaling and statistical decision theory. Studies the application of signal detection theory in various areas of psychology including psychophysics, memory, physiology, and psycholinguistics.</td>
</tr>
<tr>
<td>KNH1020A</td>
<td>Aerobic Conditioning</td>
<td>1</td>
<td>Fundamental skills and knowledge of Aerobic Conditioning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>EE7510</td>
<td>Dig. Wideband Rec. Desig</td>
<td>7510</td>
<td>Dig. Wideband Rec. Desig</td>
<td>EE Electrical Engineering</td>
<td>3</td>
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<tr>
<td>CEG6520</td>
<td>Sci Vis and Virt Env</td>
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<td>Sci Vis and Virt Env</td>
<td>CEG Computer Engineering</td>
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<tr>
<td>PSY9075</td>
<td>Prediction Models</td>
<td>9075</td>
<td>Prediction Models</td>
<td>PSY Psychology</td>
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<tr>
<td>MUS7340</td>
<td>Analytical Techniques II</td>
<td>7340</td>
<td>Analytical Techniques II</td>
<td>MUS Music</td>
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<tr>
<td>CLS5500</td>
<td>Ancient Culture and Soc.</td>
<td>5500</td>
<td>Ancient Culture and Soc.</td>
<td>CLS Classics</td>
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<tr>
<td>WGS4800</td>
<td>Selected Subjects</td>
<td>4800</td>
<td>Selected Subjects</td>
<td>WGS Women, Gender, and Sexuality</td>
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<tr>
<td>KNH1550A</td>
<td>GRACIE Self Def: Basic</td>
<td>1550A</td>
<td>GRACIE Self Def: Basic</td>
<td>KNH Kinesiology &amp; Health</td>
<td>1</td>
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<tr>
<td>GER3220</td>
<td>Adv Writing in German</td>
<td>3220</td>
<td>Adv Writing in German</td>
<td>GER German</td>
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<tr>
<td>PSY8020</td>
<td>Stress, Cognition, Hlth</td>
<td>8020</td>
<td>Stress, Cognition, Hlth</td>
<td>PSY Psychology</td>
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<td>ENG1140</td>
<td>Acad Writing &amp; Reading</td>
<td>1140</td>
<td>Acad Writing &amp; Reading</td>
<td>ENG English</td>
<td>4</td>
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<tr>
<td>REL3430</td>
<td>Buddhism</td>
<td>3430</td>
<td>Buddhism</td>
<td>REL Religion</td>
<td>3</td>
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<td>EDT8610</td>
<td>HPA Clinical Teaching</td>
<td>8610</td>
<td>HPA Clinical Teaching</td>
<td>EDT Educational Technology</td>
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<td>ATR3600</td>
<td>Therapeutic Modalities</td>
<td>3600</td>
<td>Therapeutic Modalities</td>
<td>ATR Athletic Training</td>
<td>3</td>
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<tr>
<td>MIS7100</td>
<td>Data Analytics Bus &amp; Org</td>
<td>7100</td>
<td>Data Analytics Bus &amp; Org</td>
<td>MIS Management Information Systems</td>
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<td>Course Code</td>
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<td>ECE4900</td>
<td>Internship</td>
<td>4900</td>
<td>UG</td>
<td>ECE</td>
<td>1st-3rd grade setting application of pedagogical content knowledge from early childhood methods.</td>
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<td>ISG7240</td>
<td>Car &amp; Diff St</td>
<td>7240</td>
<td>UG</td>
<td>ISG</td>
<td>Understanding the various curriculum models and differentiation in gifted education.</td>
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<tr>
<td>PHY4620</td>
<td>Nucl &amp; Part Physics</td>
<td>4620</td>
<td>UG</td>
<td>PHY</td>
<td>Nuclear properties and models, radioactive decay, nuclear applications.</td>
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<tr>
<td>EE3450</td>
<td>Intro Electromagnetism</td>
<td>3450</td>
<td>UG</td>
<td>EE</td>
<td>Electrostatics and magnetics; induced electro-motive force; Maxwell's equations and their physical interpretation.</td>
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<tr>
<td>CLS5600</td>
<td>Ancient Mythology</td>
<td>5600</td>
<td>GR</td>
<td>CLS</td>
<td>Greek and Roman mythology, aspects and approaches.</td>
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<tr>
<td>MTH3450</td>
<td>Geometry Mid Schl Tchr</td>
<td>3450</td>
<td>UG</td>
<td>MTH</td>
<td>Two- and three-dimensional Euclidean geometry.</td>
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<td>IHE6010</td>
<td>Ethics in Engineering</td>
<td>6010</td>
<td>GR</td>
<td>IHE</td>
<td>Introduce new graduate students to ethics.</td>
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<td>PSY7050</td>
<td>Cognition</td>
<td>7050</td>
<td>GR</td>
<td>PSY</td>
<td>Principles and problems of human cognition.</td>
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<tr>
<td>PNT890</td>
<td>Continuing Registration</td>
<td>7890</td>
<td>GR</td>
<td>PN</td>
<td>By permission of instructor.</td>
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<tr>
<td>ECO5720</td>
<td>Credit</td>
<td>5720</td>
<td>GR</td>
<td>ECO</td>
<td>New legislation makes financial literacy relevant.</td>
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<tr>
<td>UVC1020</td>
<td>FYS Service Learning</td>
<td>1020</td>
<td>GR</td>
<td>UVC</td>
<td>Success within selected major.</td>
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<tr>
<td>PHY4400</td>
<td>Intro Nanosci/Nanotech</td>
<td>4400</td>
<td>GR</td>
<td>PHY</td>
<td>Introduction to nanoscience and technology.</td>
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<tr>
<td>ENG7220</td>
<td>Creative Process</td>
<td>7220</td>
<td>GR</td>
<td>ENG</td>
<td>Survey of the theoretical and practical aspects of literary creativity.</td>
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<tr>
<td>EDS7030</td>
<td>Learners with Exceptionalities</td>
<td>7030</td>
<td>GR</td>
<td>EDS</td>
<td>Cultural, social, emotional, and learning needs.</td>
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<tr>
<td>HPR3560</td>
<td>Assessment in HPE</td>
<td>3560</td>
<td>GR</td>
<td>HPR</td>
<td>Introduction to the construction, evaluation, and interpretation of assessments.</td>
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<td>EE7530L</td>
<td>VLSI Des Synth Optim Lab</td>
<td>7530L</td>
<td>GR</td>
<td>EE</td>
<td>Required laboratory for EE 7530.</td>
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<td>EE7520L</td>
<td>Low Pwr VLSI Sys Des Lab</td>
<td>7520L</td>
<td>GR</td>
<td>EE</td>
<td>Required lab for EE 7520.</td>
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<tr>
<td>DAN1310</td>
<td>Intermediate Jazz I</td>
<td>1310</td>
<td>GR</td>
<td>DAN</td>
<td>First-year intermediate jazz dance technique. Focuses on increasing body strength, flexibility, and kinesthetic awareness.</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Level</td>
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<tr>
<td>OIS2200</td>
<td>Admin Office Management</td>
<td>Office organization with an emphasis on work flow, proper equipment, problems in supervision, human relations, and management techniques.</td>
<td>3</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>ART4150</td>
<td>Studies Mod Contemp Art</td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time.</td>
<td>4</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>PHY6810</td>
<td>Electromag. Theory - I</td>
<td>Electromagnetic field theory emphasizing static and time dependent fields, field sources, and boundary value problems using advanced mathematical techniques.</td>
<td>4</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>URS4200</td>
<td>Public Mgt Strategies</td>
<td>Investigates urban management and various techniques to achieve public service goals, including efficiency, quality, and effectiveness.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>REL5210</td>
<td>Christianity</td>
<td>Examination of the historical development of Christianity from biblical times to the present, with an emphasis on the diversity of religious beliefs, practices, and institutions.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>ME6750L</td>
<td>Matrls Characterization Lab</td>
<td></td>
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<td>Lab</td>
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<td>BIO4530L</td>
<td>Respiratory Physiology Lab</td>
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<td>UG</td>
<td>Lab</td>
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<tr>
<td>CHM1060</td>
<td>Chemistry: Materials</td>
<td>Examines the bonding of metals and nonmetals to explain the nature of familiar materials of industrial importance. Attention to the risk/benefit implications of these materials and technologies for consumers.</td>
<td>4</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>APS4030</td>
<td>APS Finance</td>
<td>A course to provide opportunities for students to gain knowledge, practice, and study in financial management. Focus on financial management concepts such as financial goal setting, financial statements, financial analysis, credit, insurance, and financial tools.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>TH2410</td>
<td>Movement II</td>
<td>Training in group and solo movement/vocal techniques, intended to expand the flexibility and strength of the actor's instrument, awareness, responsiveness, and instinctual choices.</td>
<td>2</td>
<td>UG</td>
<td>Studio</td>
</tr>
<tr>
<td>ATH2000</td>
<td>Intro to Anthropology</td>
<td>An introduction to the major including advising, curriculum, and career options. The course is optional, but highly recommended for Anthropology majors and minors.</td>
<td>1</td>
<td>UG</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS6100</td>
<td>Pol Psychology</td>
<td>Introduces students to political psychology, with an emphasis on application to international politics. Students are provided with a broad survey of psychological theories, approaches and works, and how these perspectives are applied to foreign policy and world politics.</td>
<td>3</td>
<td>GR</td>
<td>Seminar</td>
</tr>
<tr>
<td>PLS6930</td>
<td>Contemporary Problems</td>
<td>Advanced study in a selected topic that frequently includes new developments in the methodology or subject matter of the various subfields of the discipline.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>KNH1160A</td>
<td>Dance: Latin</td>
<td>Fundamental skills and knowledge of Dance: Latin. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>1</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>RHB7040</td>
<td>Psychosocial Rehab</td>
<td>Psychological issues associated with specific disabling conditions. An in-depth review of the general adjustment process to disability and definitions of normality and abnormality.</td>
<td>3</td>
<td>GR</td>
<td>Lab</td>
</tr>
<tr>
<td>PHY6400</td>
<td>Nanosci. and Nanotech.</td>
<td>Introduction to nanoeengineering, nanoscience and nanotechnology. Topics include introduction to quantum mechanics, fabrication, characterization, materials, electronic properties, optical properties, magnetic properties, devices, MEMS, NEMS.</td>
<td>3</td>
<td>GR</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>ED6650</td>
<td>AYA: Int Math: C&amp;M I</td>
<td>This course will examine curriculum, methods, and materials in the teaching of mathematics for grades 7-12. This includes lesson planning, assessment, differentiation, technology, and content for algebra and geometry courses.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>TH3290</td>
<td>Costume History</td>
<td>History of costume and fashion from prehistoric to modern times and fashion and how it relates to theatre.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
</tr>
<tr>
<td>MIS7600</td>
<td>Bus Data Visulztn</td>
<td>An in-depth study of business data visualization technologies and applications. A special focus on the application of analytics and visualization technologies for the discovery of insights from business data. This course has a fee that is non-refundable once the term begins.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>ME4720</td>
<td>Engineering Polymers</td>
<td>This course introduces polymers as engineering materials and covers fundamental concepts in polymer science and engineering. This includes polymerization processes morphology and crystallinity, thermal transitions, viscoelasticity, rubber elasticity, aging and contemporary issues in polymers.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
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<td>Description</td>
<td>Session</td>
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<tr>
<td>MUS6490</td>
<td>6490</td>
<td>Music Since 1900</td>
<td>Study of music and critical analysis of representative works from major composers of music written after 1900.</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>P&amp;N6500</td>
<td>6500</td>
<td>Gilal Cell Physiology</td>
<td>Concepts of gilal cell physiology based on the analysis of current primary literature. Topics include interactions between gila and other cell types and the role of gila in pathophysiology.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>HUM7300</td>
<td>7300</td>
<td>Humanities Project</td>
<td>Capstone project under the direction of a three-member faculty committee.</td>
<td>Spring 2021</td>
<td>Independent Study</td>
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<tr>
<td>ANT8000</td>
<td>8000</td>
<td>Anatomy Seminar</td>
<td>Two seminars (Anatomy Seminar I and II) run concurrent with the Department of Neuroscience, Cell Biology and Physiology Seminar Series.</td>
<td>Spring 2021</td>
<td>Seminar</td>
</tr>
<tr>
<td>ACC7410</td>
<td>7410</td>
<td>Fin ACC Adv Topics/Res</td>
<td>A survey of accounting theory, standard setting and accounting procedures. Includes an intensive study of the balance sheet and income statement and the underlying accounting principles. Accounting research will be integrated throughout the course.</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>KNH1140A</td>
<td>1140A</td>
<td>Dance: Ballroom</td>
<td>Fundamental skills and knowledge of Dance: Ballroom. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>Spring 2021</td>
<td>Lab</td>
</tr>
<tr>
<td>ENG5560</td>
<td>5560</td>
<td>Writing Workshop</td>
<td>Advanced strategies for teaching writing to adolescent and middle school students with an emphasis on genres and workshop pedagogy.</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>REL3760</td>
<td>3760</td>
<td>The Four Gospels</td>
<td>Literary and historical study of the four Gospels in the Christian Bible, aiming to discern their purposes in writing, reconstruct their communities, and reflect on the meaning of their presentations of Jesus. Some attention to the problem of the historical Jesus.</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>ECO5560</td>
<td>5560</td>
<td>Intrl ECO K-12 Teach</td>
<td>This course is designed to provide teachers with little or no international economic education experience a road map to international economics. Available online resources will be explored for their use in providing a basic understanding of international economic concepts. This course will also aid teachers in presenting concepts covered on the state proficiency examinations. This course has a fee that is non-refundable once the term begins.</td>
<td>Spring 2021</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>MUE6950</td>
<td>6950</td>
<td>Chamber Singers</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced vocal chamber literature from 15th through 20th centuries. Audition required.</td>
<td>Spring 2021</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>REL5760</td>
<td>5760</td>
<td>Four Gospels</td>
<td>Literary and historical study of the four Gospels in the Christian Bible, aiming to discern their purposes in writing, reconstruct their communities, and reflect on the meaning of their presentations of Jesus. Some attention to the problem of the Historical Jesus.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>PLS6770</td>
<td>6770</td>
<td>International Organizati</td>
<td>Examines the competing theoretical perspectives on international organization and analyzes the structure, functions, and the evolving role of key international organizations--IGO's &amp; NGO's-- in global governance; also explores their pathologies and prospects for reform.</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS5970</td>
<td>5970</td>
<td>Independent Study in CS</td>
<td>Independent study in computer science.</td>
<td>Spring 2021</td>
<td>Independent Study</td>
</tr>
<tr>
<td>KNH1120A</td>
<td>1120A</td>
<td>Canoeing</td>
<td>Fundamental skills and knowledge of Canoeing. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td>Spring 2021</td>
<td>Lab</td>
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<tr>
<td>BMS775O</td>
<td>7750</td>
<td>Pathogenic Mechanisms</td>
<td>(Also listed as M&amp;I 6750.) This advanced level course will expand the knowledge of basic microbiology by focusing on human-microbial pathogen interactions. The molecular basis of the pathogenic mechanisms will be emphasized. In addition, the student will gain a better appreciation and understanding of the complexities of interactions between microbes and their human hosts. 4.0 Credit hours</td>
<td>Spring 2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS3440</td>
<td>3440</td>
<td>Police Procedures &amp; Ops</td>
<td>Procedures and operations of law enforcement at various levels from patrol to senior administration, emphasizing duties, responsibilities and leadership. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>URS4240</td>
<td>4240</td>
<td>Public Labor Relations</td>
<td>Examines collective bargaining, the negotiation process, impasse resolution, and contract and grievance administration in local government.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>EE7440L</td>
<td>7440L</td>
<td>RF Power Amplifiers Lab</td>
<td>Required lab for EE 7440.</td>
<td>Spring 2021</td>
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<tr>
<td>AES4310</td>
<td>4310</td>
<td>Prep for Active Duty I</td>
<td>Overview of the complex social and political issues facing the military profession.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<td>Department</td>
<td>Grade</td>
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<td>PPH8100</td>
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<td>Crit Thinking in Pub Hlt</td>
<td>PPH</td>
<td>GR</td>
<td>LE</td>
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<td>Population &amp; Public Health</td>
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<td>SW6150</td>
<td>6150</td>
<td>Cultural Comp in SW</td>
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<td>GR</td>
<td>LE</td>
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<td>Social Work</td>
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<td>PSY8220</td>
<td>8220</td>
<td>Spatial Knowledge</td>
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<td>PLS6370</td>
<td>6370</td>
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<td>4970</td>
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<td>Food and Agricultural Systems</td>
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<td>ART4580</td>
<td>Adv Photo Practices</td>
<td>4.5</td>
<td>Exploration of advanced photographic materials and photography techniques. Investigation of aesthetic possibilities of the media. Development of personal concepts and aesthetic expression in photography. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 3580 Minimum Grade of D and Undergraduate level ART 3590 Minimum Grade of D.</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>PSY4360</td>
<td>Development Psych Cap</td>
<td>4.36</td>
<td>Communication-intensive seminar integrating knowledge on current theory, research, and applied issues in selected aspects of development across the lifespan. Topic will vary. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level PSY 6020 Minimum Grade of C.</td>
<td>UG</td>
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<tr>
<td>CEG6120</td>
<td>Managing Soft/Dev Proc</td>
<td>6.12</td>
<td>Discusses software development processes, models, and techniques necessary to successfully develop large-scale software and presents the Capability Maturity Model (CMM). Students will participate in the development of a software project. Department Managed Prerequisite(s): Graduate level CEG 6110 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>PSLS4600</td>
<td>Comparative Politics Sem</td>
<td>4.60</td>
<td>Readings, research, reports, and discussion of selected topics and problems. Topics vary. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level PSLS 4580 Minimum Grade of C.</td>
<td>UG</td>
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<tr>
<td>RHB3630</td>
<td>Behavioral Analysis</td>
<td>3.63</td>
<td>Introduction to applied behavior analysis. Principles and interventions related to applied behavior analysis as well as potential benefits of applied behavior analysis treatment. Department Managed Prerequisite(s): Undergraduate level RHB 2510 Minimum Grade of C.</td>
<td>UG</td>
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<tr>
<td>HST7810</td>
<td>Public Hist Internship</td>
<td>7.81</td>
<td>Practical training in various aspects of public history and historical administration. Completion of a 300-clock-hour internship and preparation of a report on the experience. Department Managed Prerequisite(s): Undergraduate level HST 4580 Minimum Grade of C.</td>
<td>GR</td>
<td>IN</td>
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<tr>
<td>EED1000</td>
<td>Pre-Prof Sem P-5</td>
<td>1.00</td>
<td>Introduction to elementary education program. Topics include preparation, licensure requirements, professional organizations, and undergraduate research opportunities; explore teaching identities, clarify values, communication strategies, goal setting, course planning; personal wellness to becoming a teacher. Department Managed Prerequisite(s): Undergraduate level EED 1010 Minimum Grade of C.</td>
<td>UG</td>
<td>SE</td>
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<tr>
<td>MP4350</td>
<td>Adv. Studies in Media</td>
<td>4.35</td>
<td>Advanced media studies. Topics vary. Department Managed Prerequisite(s): Undergraduate level MP 3580 Minimum Grade of C.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>HLT7001</td>
<td>Intro Multivar Bio Stats</td>
<td>7.01</td>
<td>This course examines multivariate statistical procedures commonly used in health care literature. The focus is on understanding appropriate use of statistical procedures and interpretation of findings. Department Managed Prerequisite(s): Undergraduate level HLT 2510 Minimum Grade of C.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>CEG4430</td>
<td>Cyber Network Security</td>
<td>4.43</td>
<td>Focus on security vulnerabilities, threats, attacks, and mitigation solutions in the context of cyber networks. Topics include network traffic analysis, basic cryptography, protocol vulnerabilities, application vulnerabilities, secure networking protocols, malicious logics, firewalls, as well as the design and evaluation of intrusion detection systems. Department Managed Prerequisite(s): Undergraduate level CEG 4120 Minimum Grade of C.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>ARA2010</td>
<td>Intermediate Arabic I</td>
<td>2.01</td>
<td>Grammar review, reading, and discussion of selected texts with practice in speaking and writing the language. Department Managed Prerequisite(s): Undergraduate level ARA 1020 Minimum Grade of C.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>CL4230</td>
<td>Clinical Pathology Sem</td>
<td>4.23</td>
<td>Discussion of clinical findings through case studies. Department Managed Prerequisite(s): Undergraduate level CL 3590 Minimum Grade of C.</td>
<td>UG</td>
<td>SE</td>
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<tr>
<td>PHL6020</td>
<td>Continental PHL Seminar</td>
<td>6.02</td>
<td>A focused, in-depth study of a narrow theme or topic in the continental and European philosophical traditions. Topics vary, but will focus on an issue in phenomenology, hermeneutics, critical theory, psychoanalytic theory, or continental social and political philosophy. Readings will focus on a small number of thinkers in the tradition, including philosophers such as Husserl, Heidegger, Merleau-Ponty, Levinas, Adorno, Benjamin, Marcuse, Foucault, Habermas, and Freud. Department Managed Prerequisite(s): Undergraduate level PHL 6010 Minimum Grade of C.</td>
<td>GR</td>
<td>SE</td>
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<tr>
<td>NUR4810</td>
<td>Nur Care in Genomics Era</td>
<td>4.81</td>
<td>Foundation course in genomics and determinants of health that explores essential competencies for professional nurses to improve clients' health and increase their longevity. Emphasizes health and wellness in context of human diversity for individuals and families. Implications for best practices associated with genomic information including ethics and counseling are highlighted. Department Managed Prerequisite(s): Undergraduate level NUR 4580 Minimum Grade of C.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>PSY6410</td>
<td>Industrial Psy Cap</td>
<td>6.41</td>
<td>Writing and oral communication intensive seminar integrating knowledge on Industrial Psychology. Department Managed Prerequisite(s): Undergraduate level PSY 6580 Minimum Grade of C.</td>
<td>GR</td>
<td>SE</td>
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<tr>
<td>PHY7510</td>
<td>Atomic Spectra &amp; Struct.</td>
<td>7.51</td>
<td>Modern theory of the atom and quantum mechanical treatment of the origin of atomic and X-ray spectra. Department Managed Prerequisite(s): Undergraduate level PHY 6580 Minimum Grade of C.</td>
<td>GR</td>
<td>SE</td>
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Spring 2021  ED1020  1020  Managing Personal Aesthetics  ED  Education  2  Assist students with severe physical disabilities in learning how to recruit, interview, screen, select, hire, train, schedule, manage, and fire personal assistants.  UG  LE  Lecture

Spring 2021  WGS6200  6200  Women Infor. Persp.  WGS  Women, Gender, and Sexuality  3  Issues, approaches and topics in women and gender studies, with focus on racial, ethnic, cultural, and other differences among women outside of the U.S. Titles and topics vary.  GR  LE  Lecture

Spring 2021  MUE6670  6670  Pep Band  MUE  Music: Ensembles  1  Performs jazz, rock, and contemporary music at all home basketball games and for other campus activities. Audition required.  GR  LL  Lecture/Lab Combination

Spring 2021  EDL9910  9910  Dist Lvl Lic Prog: Entry  EDL  Educational Leadership  1  Candidates investigate various contemporary educational leadership topics and issues: content knowledge, pedagogical content knowledge, diversity, technology, professionalism, emotional intelligence, and/or others.  GR  SE  Seminar

Spring 2021  KNH1480  1480  Rappelling  KNH  Kinesiology & Health  1  Fundamental skills and knowledge of Rappelling. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab

Spring 2021  BIO6110L  6110L  The Aquatic Environment Lab  BIO  Biology  0  Required laboratory for BIO 6110.  GR  LB  Lab

Spring 2021  MP3820  3820  Advanced MP Prod II  MP  Motion Picture  6  Production of film and video projects under faculty supervision including budgeting, financing, and production. Emphasis on the documentary, fiction, and independent film within the free-lance motion pictures market.  UG  LL  Lecture/Lab Combination

Spring 2021  LE1070  1070  Criminal Justice Ethics  LE  Law Enforcement  3  Comprehensive, balanced, and practical coverage of ethics across all three arms of the criminal justice system: the police, the courts, and corrections. Philosophical principles and theories that are the foundation of ethical decision-making and the latest challenges and issues in criminal justice.  UG  LE  Lecture

Spring 2021  PHY4630  4630  Solid State Physics  PHY  Physics  3  Selected properties of solids and their quantitative explanation in terms of simple physical models. Applications of quantum mechanics to solids.  UG  LL  Lecture/Lab Combination

Spring 2021  STT7910  7910  Statistical Consulting  STT  Statistics  2  Consultation with graduate students and faculty on statistical problems arising from research projects. Department Managed Prerequisite(s): (Graduate level STT 6620 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D) AND (Graduate level STT 6670 Minimum Grade of D) AND (Department Managed Prerequisite(s) and Grade of D) AND (Department Managed Prerequisite(s) and Grade of D).

Spring 2021  EDL7655  7655  Facilitating Teams  EDL  Educational Leadership  3  Delving into the art and science of facilitating and leading teams of adult learners.  GR  SE  Seminar

Spring 2021  EC4600  4600  Economics of Sports  EC  Economics  3  Applications of economic principles to professional and intercollegiate sports.  UG  LE  Lecture

Spring 2021  CHM5120  5120  Quantitative Analysis  CHM  Chemistry  2  Introduction to chemical methods of analysis covering traditional as well as modern techniques and equipment; emphasis on calculations and interpretation of analytical data.  GR  LE  Lecture

Spring 2021  REL3740  3740  Prophets and History  REL  Religion  3  Historical context of Biblical prophecies.  UG  LE  Lecture

Spring 2021  EES3140  3140  Sedimentary Petrology  EES  Earth & Environmental Sciences  4  Optical properties of common minerals. Survey of sedimentary rocks in hand sample, thin section and field occurrence.  UG  LL  Lecture/Lab Combination

Spring 2021  GEO4400  4400  Comm/Reg Planning II  GEO  Geography  3  Planning structures, developing plans, and preparing analytical studies needed to make planning decisions. Solving social and economic problems using planning tools.  UG  LE  Lecture

Spring 2021  ENG4920  4920  Internship in Writing  ENG  English  3  Supervised professional writing in workplace setting. Integrated Writing course.  UG  IN  Internship

Spring 2021  HST1200  1200  West & World since 1500  HST  History  3  Examination of the modern Western world emphasizing the revolutions in economics, politics, religion and other phenomena that have shaped the Western world in our own time.  UG  LE  Lecture

Spring 2021  EDL7200  7200  Analysis of Teaching  EDL  Educational Leadership  3  Analytic and practical approach to teaching methods and skills for inducing learning with attention to interaction analysis and cognitive science.  GR  LE  Lecture

Spring 2021  COM4330  4330  Internship  COM  Communication  1  Research, practice, and participation in communication fora, symposia, or an oral communication project designed to meet the interest of individual students.  UG  IN  Internship

Spring 2021  TH2260  2260  Graphics II: Drafting  TH  Theatre  3  Introduction to and practice with the basic tools, materials and techniques used in drafting scenic designs for the theatre.  UG  LL  Lecture/Lab Combination

Spring 2021  TEG2930  2930  Basic Mach & Welding  TEG  Technical Engineering  6  Identification and operation of proper welding and machining operations.  UG  LL  Lecture/Lab Combination

Spring 2021  CHM8960  8960  Early Start Research  CHM  Chemistry  2  A short-term research project as an introduction to Masters-level chemistry research  GR  IS  Independent Study
<p>| Spring 2021 | LE1110 | 1110 | Police Academy 2 | LE | Law Enforcement | 3 | Ohio Police Training Academy curriculum. Basic training and Ohio Revised Code. Examines criminal code (ORC 2900), laws of arrest, and firearms training. Requires admission to Grand Lake Law Enforcement Academy. | UG | LL | Lecture/Lab Combination |
| Spring 2021 | CHM6550 | 6550 | Chem Microscopy with App | CHIM | Chemistry | 2 | Examination of microscopy instrumentation and its applications to the study of surface and interface chemistry. The course will cover fundamentals of instrumentation design and methods. Topics will focus on scanning probe microscopy and its applications, particularly to solid-fluid interfaces. | GR | LE | Lecture |
| Spring 2021 | PLST200 | 7200 | Grad Sem in IR theory | PLS | Political Science | 3 | Introduction to the theories and concepts employed in modern political analysis with emphasis on the study of international relations. | GR | SE | Seminar |
| Spring 2021 | DANN3320 | 3320 | Musical Theatre Dance II | DAN | Dance | 3 | Group class applies ballet, jazz, and modern dance techniques to Musical Theatre dance. | UG | ST | Studio |
| Spring 2021 | ME2120 | 2120 | Statics | ME | Mechanical and Materials Engr | 3 | Forces, resultants, components, equilibrium of particles, equilibrium of rigid bodies, centroids and centers of gravity, analysis of structures, friction, and moments of inertia. Department Managed Prerequisite(s): Undergraduate level EGR 1010 Minimum Grade of D and Undergraduate level PHY 2400 Minimum Grade of D and Undergraduate level ME 1040 Minimum Grade of D. | UG | LE | Lecture |
| Spring 2021 | EES3460 | 3460 | Concepts EES II MCE | EES | Earth &amp; Environmental Sciences | 4 | Processes that impact the Earth system such as volcanic eruptions, global climate change and ice ages, and the resulting interactions between air, land, water and life in the Earth system. | UG | LL | Lecture/Lab Combination |
| Spring 2021 | EES6340 | 6340 | Mapping Methods | EES | Earth &amp; Environmental Sciences | 2 | This course teaches the key basic skills of mapping and measurement with a Brunton compass as applied to field studies in the earth and environmental sciences. Key skills include pace &amp; compass traverse mapping, triangulation, bearing and reverse bearings, measurement of lines and planes. | GR | LL | Lecture/Lab Combination |
| Spring 2021 | HHE6350 | 6350 | Comp Neuroerg &amp; 1Hth App | HHE | Industrial &amp; Hum Fac Engr | 3 | Principles and application of computational methods and technologies to neuroergonomics and neuroengineering; analysis of applications related to brain-system interface and augmented sensory perception; articulation of various methods of non-invasive neuroscience measurements. | GR | LE | Lecture |
| Spring 2021 | MTE6100 | 6100 | Math Modeling Behav Sci | MTE | Mathematics Teacher Education | 3 | Important mathematical topics such as differential equations, axiomatics, probability theory, matrix algebra, simulation, and game theory and their use in a variety of models in the social sciences, life sciences, and humanities. Includes deterministic models, probabilistic models, simulations, and considers both discrete and continuous models. | GR | LE | Lecture |
| Spring 2021 | BHO2140 | 2140 | Intro Cell Bio Lab | BIO | Biology | 2.5 | Concepts pertaining to cell structure, the analysis of macromolecules, microscopy and the use of model organisms. | UG | LB | Lab |
| Spring 2021 | FIN4220 | 4220 | Analysis Corp Fin Info | FIN | Finance | 3 | Analysis of corporate financial information from an investment analyst perspective. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | SPN2010 | 2010 | Intermediate Spanish I | SPN | Spanish | 3 | Grammar review, reading, and discussion of selected texts with practice in speaking and writing the language. Taught in Spanish. Department Managed Prerequisite(s): Undergraduate level SPN 1020 Minimum Grade of C or AP Spanish Language 3. | UG | LE | Lecture |
| Spring 2021 | EE3030L | 3030L | Circuit Analysis II Lab | EE | Electrical Engineering | 1 | Application of AC concepts, computer-aided circuit analysis, two-port networks, and power theory. Department Managed Prerequisite(s): Undergraduate level EE 2010 Minimum Grade of D and Undergraduate level EE 2010L Minimum Grade of D. | UG | LB | Lab |
| Spring 2021 | ML2010 | 2010 | French Culture | ML | Modern Languages | 3 | An introduction to French cultural life through significant historical events, literary works, art, cuisine, music, and film. | UG | LE | Lecture |
| Spring 2021 | HST4210 | 4210 | British History | HST | History | 3 | Examines particular periods of British history (e.g., modern Britain) or topics (e.g., British constitutional history). Topics vary. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | PLS3750 | 3750 | Human Rights in USA | PLS | Political Science | 3 | Examines controversies over human rights in the United States and considers contending definitions of human rights and debates over policy by focusing on a range of issues including immigration, pornography, gay rights, race relations, and poverty. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | ECE3230 | 3230 | ECE Field Experience II | ECE | Education - Early Childhood | 1 | Candidates, mentored by an early childhood educator, assist in the planning, organizing, delivering, and assessing of instruction in a 1st-3rd grade setting increasingly applying pedagogical content knowledge from early childhood methods courses. | UG | PR | Practicum |
| Spring 2021 | REL3720 | 3720 | Pentateuch | REL | Religion | 3 | Patriarchal narratives and Mosaic legislation of the Pentateuch or Torah, the initial five books of the Bible. | UG | LE | Lecture |
| Spring 2021 | OL4940 | 4940 | Talent Development | OL | Organizational Leadership | 3 | Explores the systematic and strategic approaches to talent management by learning how to assess and develop an organization’s human assets. Integrated Writing course. | UG | SE | Seminar |</p>
<table>
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<th>Course Code</th>
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<th>Title</th>
<th>Instructor(s)</th>
<th>Department</th>
<th>Title Description</th>
<th>Offered</th>
<th>Method</th>
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<tr>
<td>MUS1350</td>
<td>1.5</td>
<td>Guitar Pedagogy</td>
<td>MUS Music</td>
<td>Lecture</td>
<td>The study of materials, equipment, and class instruction on guitar for the elementary teacher.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PLS5750</td>
<td>5.75</td>
<td>Human Rights in USA</td>
<td>PLS Political Science</td>
<td>Lecture</td>
<td>Examines controversies over human rights in the U.S. Considers contending definitions of human rights and debates over policy by focusing on a range of issues including immigration, pornography, gay rights, race relations, and poverty.</td>
<td>Spring 2021</td>
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<td>Lecture</td>
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<td>PSY8750</td>
<td>1.75</td>
<td>Job Attitudes</td>
<td>PSY Psychology</td>
<td>Lecture</td>
<td>An overview of the theoretical, methodological and empirical literature on job attitudes.</td>
<td>Spring 2021</td>
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<td>Lecture</td>
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<td>PSY4310</td>
<td>3.0</td>
<td>Clinical Psychology Cap</td>
<td>PSY Psychology</td>
<td>Lecture</td>
<td>Communication-intensive seminar integrating knowledge within clinical psychology. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>GEO3400</td>
<td>3.0</td>
<td>Urban Geography</td>
<td>GEO Geography</td>
<td>Lecture</td>
<td>Spatial development of urban areas in United States and selected urban areas globally. Examines scale, characteristics, and interconnectedness of urban areas using location quotients, technology development, and population migration concepts.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>NUR7102</td>
<td>3.0</td>
<td>Adv Path Across Lifespan</td>
<td>NUR Nursing</td>
<td>Lecture</td>
<td>An in-depth scientific knowledge base is explored relevant to selected pathophysiological states across the lifespan confronted by graduate nurses. This course provides a basis for the foundation of clinical decisions related to selected diagnostic tests and the initiation of therapeutic regimens. Pathophysiology is correlated to clinical diagnoses and management.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>GER3700</td>
<td>3.0</td>
<td>Internship in German</td>
<td>GER German</td>
<td>Lecture</td>
<td>Supervised use of German in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum time commitment 135 hours a semester, including a minimum of 120 hours of on-site work. Senior standing and advisor permission required.</td>
<td>Spring 2021</td>
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<td>Internship</td>
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<tr>
<td>CHM1050L</td>
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<td>Chemistry: Living Things Lab</td>
<td>CHM Chemistry</td>
<td>Lab</td>
<td>Required laboratory for CHM 1050.</td>
<td>Spring 2021</td>
<td>LB</td>
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<tr>
<td>MUS3230</td>
<td>3.23</td>
<td>Basic Conducting</td>
<td>MUS Music</td>
<td>Lecture</td>
<td>Basic baton technique and score reading for choral and instrumental conducting.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
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<td>IB4770</td>
<td>4.77</td>
<td>Indep Study:Int'l Bus</td>
<td>IB International Business</td>
<td>Lecture</td>
<td>Individualized program of study, agreed to between sponsoring faculty member and student and approved by the department chair.</td>
<td>Spring 2021</td>
<td>IS</td>
<td>Independent Study</td>
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<td>MLB4410</td>
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<td>Hemostasis</td>
<td>MLB Medical Laboratory Science</td>
<td>Lecture</td>
<td>Principles of hemostasis involved in blood vessel contraction, platelet activation and formation, and activation of coagulation factors, and their use in diagnosing coagulation defects and monitoring anticoagulant therapy.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>REL5310</td>
<td>3.51</td>
<td>Introduction to Islam</td>
<td>REL Religion</td>
<td>Lecture</td>
<td>Introduction to the Islamic belief systems and practices, from the rise of Islam to the modern era.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>EDS6400</td>
<td>6.40</td>
<td>Child w/Med/Phys/Sen s/AU</td>
<td>EDS Education - Special Education</td>
<td>Lecture</td>
<td>Medical, physical, sensory, and autism spectrum needs of individuals with exceptionalities, birth-22. Collaboration of families and professionals, resources, accommodations, modifications, and methods. Direct work with appropriate aged individual with moderate/intensive needs required.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>AFS3390</td>
<td>3.99</td>
<td>Special Topics</td>
<td>AFS Afr /Afr Amer Studies</td>
<td>Lecture</td>
<td>Selected topics relevant to historical and current issues in African and African American Studies</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>KNH4840</td>
<td>4.84</td>
<td>Practicum-Health, PE &amp; Rec</td>
<td>KNH Kinesiology &amp; Health</td>
<td>Lecture</td>
<td>Supervised field work for senior students seeking certification or a concentration in a specific area. Titles vary. Contact hours vary according to subject. May be taken for letter grade or pass/unsatisfactory.</td>
<td>Spring 2021</td>
<td>PR</td>
<td>Practicum</td>
</tr>
<tr>
<td>REL3410</td>
<td>3.41</td>
<td>Chinese Religions</td>
<td>REL Religion</td>
<td>Lecture</td>
<td>Introductory survey of religious thought and practice in Chinese history and culture. Primary focus on Confucianism, Daoism, and Buddhism. Themes examined include religion and politics in Chinese history, human nature and self-cultivation, and conceptions of the sage in Chinese religions.</td>
<td>Spring 2021</td>
<td>LE</td>
<td>Lecture</td>
</tr>
</tbody>
</table>
Spring 2021  
PHL3200  3200  Symbolic Logic I  PHL  Philosophy  3  Introduction to the techniques of deductive logic including truth-table analysis, the prepositional calculus, and predicate logic. Students who have taken PHL 2230 cannot take PHL 3200.  UG  LE  Lecture  
Spring 2021  
MUS6430  6430  Vocal Pedagogy  MUS  Music  3  This course is designed to make students familiar with physiological and psychological aspects of voice so they will better understand their own instruments and will be better equipped to teach others.  GR  LE  Lecture  
Spring 2021  
KNH1080  1080  Basketball  KNH  Kinesiology & Health  1  Fundamental skills and knowledge of Basketball. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab  
Spring 2021  
PSY6940  6940  Animal Behavior  PSY  Psychology  3  Communication-intensive seminar integrating knowledge on animal behavior. Topics will include evolution, natural and sexual selection, and mating systems.  GR  SE  Seminar  
Spring 2021  
PHY7700  7700  Selected Topics  PHY  Physics  3  This course explores a topic for which no other course exists. Topics vary. Only 6 credit hours may be applied to those required for the MS degree.  GR  IS  Independent Study  
Spring 2021  
PSY8150  8150  Binaural Hearing  PSY  Psychology  3  Examines the psychophysical and physiological basis of binaural and spatial hearing. Topics include binaural detection, sound localization, the cocktail-party effect, models of spatial hearing, and 3-dimensional audio displays.  GR  LE  Lecture  
Spring 2021  
PSY3000  3000  PSY Core Topics  PSY  Psychology  1  A selected topic in a core area of psychology. Topics vary.  UG  LE  Lecture  
Spring 2021  
BME7371  7371  Fail Analysis Med Device  BME  Biomedical Engineering  3  Failure modes of medical devices. Common medical devices such as total joint replacement implants, fixation plates and screws, intermedullary nails, pace makers, other implantable products. Procedures to conduct failure cause investigations within the guidelines developed by regulatory agencies.  GR  LE  Lecture  
Spring 2021  
SW6450  6450  Con Foc Older Ad Pract  SW  Social Work  0  Provides students with understanding of advanced generalist practice with older adults. Utilizes life course perspective incorporating cultural, economic, historical and structural contexts to examine aging-related issues, particularly the impact on quality of life of older adults.  GR  LE  Lecture  
Spring 2021  
MUE6660  6660  Concert Band  MUE  Music: Ensembles  1  Performs band music of all styles. Open to all students without audition.  GR  LL  Lecture/Lab Combination  
Spring 2021  
ART2000  2000  Studies in Art  ART  Art  3  Problems and approaches to art, especially for the non-art major. May include cross-media and interdisciplinary studies.  UG  LB  Lab  
Spring 2021  
CEG3900  3900  Spec Topics in Comp Egr  CEG  Computer Engineering  1  Special Topics in Computer Engineering.  UG  LE  Lecture  
Spring 2021  
PSI9920  9920  Elective Practicum  PSI  Professional Psychology  1  Field placement that meets the criteria for PSI 9970, Practicum that is completed in addition to the placement required for PSI 9970. May be taken multiple terms.  GR  PR  Practicum  
Spring 2021  
SLI4700  4700  Specialized Interpreting II  SLI  Sign Language Interpreting  3  Skills and vocabulary essential for settings such as legal, technical, government, theater and business. Emphasis on acquisition of specific terminology, concepts, protocol with ethical and legal ramifications of each area.  UG  LE  Lecture  
Spring 2021  
SPN2110  2110  IntSpL: LawEnfmcntSoc Wk  SPN  Spanish  3  Intermediate Spanish with emphasis on law enforcement and social work contexts. Taught in Spanish.  GR  LE  Lecture  
Spring 2021  
ED6470  6470  MA Intern Pt I: Mth WL  ED  Education  1  Candidates, mentored by a world languages educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a P-12th grade setting applying pedagogical content knowledge from world language content and methods courses.  GR  IN  Internship  
Spring 2021  
MTH4550  4550  Advanced Linear Algebra  MTH  Mathematics  3  Basic principles of linear independence, spanning sets, bases, and dimension. Linear transformations, matrix representations of linear transformations, and determinants. Spectral theory of square matrices, Jordan canonical form. Perron-Frobenius results on positive matrices.  UG  LE  Lecture  
Spring 2021  
PSI9500  9500  Psychopharmacology  PSI  Professional Psychology  3  Introduction to how psychotropic medications produce their desired and undesired effects with applications to many forms of psychopathology.  GR  LE  Lecture  
Spring 2021  
BME7110  7110  Biomedical Signals  BME  Biomedical Engineering  3  Study of various techniques for the analysis and processing of biomedical signals. Main topics include time-domain and frequency-domain analysis of continuous and discrete signals, random signals and random processes, Principal Component Analysis, adaptive filtering, classical and modern spectral estimation.  GR  LE  Lecture
<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
<th>Section</th>
<th>Type</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>MTH6070</td>
<td>6070</td>
<td>Optimization Techniques MTH Mathematics 3</td>
<td>Algorithms for optimizing real functions of several variables subject to equality and inequality constraints. Convexity properties of functions and sets, linear programming, simplex and interior point methods, integer programming, branch and bound algorithm, transportation problem, necessary and sufficient conditions for nonlinear function optimization, Newton and quasi-Newton methods, Lagrange multiplier conditions, Kuhn-Tucker conditions, dynamic programming. Department Managed Prerequisite(s): Undergraduate level MTH 2320 Minimum Grade of D and Undergraduate level MTH 2530 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>PLS6410</td>
<td>6410</td>
<td>Natural Resources Law PLS Political Science 3</td>
<td>Examines federal management of natural resources on public lands, specifically water, minerals, timber, grazing, and wildlife. Analysis of constitutional authority, statutes, regulations, federalism, and judicial review of administrative decisions.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>ART4730</td>
<td>4730</td>
<td>Landscape Sculpture ART Art 3</td>
<td>Development of personal concepts and aesthetic expression in landscape sculpture. Emphasis on individualized approach to sculptural problems in nature. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 2080 Minimum Grade of D.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>MLB4811</td>
<td>4811</td>
<td>Basic Immunohem Lab MLB Medical Laboratory Science 1</td>
<td>Use of antigens and antibodies in blood grouping and transfusion medicine. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>SLI3560</td>
<td>3560</td>
<td>Signing Exact English SLI Sign Language Interpreting 3</td>
<td>Signing Exact English sign system, used in many educational settings. Vocabulary, affixes, concomitant skills, and fluency in both signing and sign to English.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>CEG7370</td>
<td>7370</td>
<td>Distributed Computing CEG Computer Engineering 3</td>
<td>Semaphores: weak and strong, split-binary, distributed. Distributed Algorithms. Communicating sequential processes. Distributed Tuple Space. Clients and servers, RPC, RMI, Hadoop. Department Managed Prerequisite(s): Undergraduate level CEG 6350 Minimum Grade of D or Graduate level CEG 6350 Minimum Grade of D.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring</td>
<td>ME6210L</td>
<td>6210L</td>
<td>Mechanical Vibrations Lab ME Mechanical and Materials Engr 0</td>
<td>Required laboratory for ME 6210.</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>MUS1010</td>
<td>1010</td>
<td>Theory of Music I MUS Music 3</td>
<td>Theoretical study of music through written exercises including melody, harmony, rhythm, form and analysis.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>DEV0280</td>
<td>0280</td>
<td>Found for Coll Algebra DEV Developmental Education 2</td>
<td>Continuation of DEV 0970 with intermediate algebra topics including: solving equations and inequalities, rational exponents, radicals, and quadratic equations. The content will be delivered to provide “just in time” remediation for MTH 1280.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring</td>
<td>ME2700</td>
<td>2700</td>
<td>Struc&amp;Prop of Mat. I ME Mechanical and Materials Engr 3</td>
<td>This course covers the fundamentals of the structures of solids and their effect on the mechanical properties of metals, polymers, and ceramics. Additional topics include phase diagrams and heat treatment. An overview of engineering materials is also presented. Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 2400 Minimum Grade of D.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>SPN3320</td>
<td>3320</td>
<td>Survey of Spanish-Amer L SPN Spanish 3</td>
<td>Historical survey of Spanish-American Literature. Reading of prose, poetry, and plays by Spanish-American writers. From pre-Columbian times to the present. Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D and (Undergraduate level SPN 3110 Minimum Grade of D or Undergraduate level SPN 3120 Minimum Grade of D or Undergraduate level SPN 3220 Minimum Grade of D or Undergraduate level SPN 3260 Minimum Grade of D or Undergraduate level SPN 3310 Minimum Grade of D or Undergraduate level SPN 3430 Minimum Grade of D or Undergraduate level SPN 3440 Minimum Grade of D or Undergraduate level SPN 3610 Minimum Grade of D or Undergraduate level SPN 3980 Minimum Grade of D or Undergraduate level SPN 3990 Minimum Grade of D).</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>LDR8600</td>
<td>8600</td>
<td>Ind Study in Leadership LDR Leadership 1</td>
<td>For students interested in exploring independent study related to a topic in leadership.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring</td>
<td>PTX7002</td>
<td>7002</td>
<td>Journal Club PTX Pharmacology/Toxicology 1</td>
<td>WSU faculty driven course. Students are presented with current literature on a specific topic. The students will give presentations on the material.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
</tbody>
</table>
Spring 2021 | EC7840 | 7840 | Capstone Preparation | EC | Economics | 3 | Techniques and theories used in preparing for the research practicum. Includes study of survey techniques; discussion of data collection, cleansing, and outlier identification, and applied case studies employing econometrics and forecasting. Must have completed at least 5 courses in the MS in Social & Applied Econ. Prog.<br>Department Managed Prerequisite(s): Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5100 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D;<br>GR | LE | Lecture

Spring 2021 | ED6675 | 6675 | MACIS Curr & Mth I | ED | Education | 3 | This course explores computer information science as a discipline that encourages inquiry, equity and collaboration. This includes lesson planning, creation of a nurturing learning environment, media literacy, and content for computer science courses.<br>GR | LE | Lecture

Spring 2021 | PLS4310 | 4310 | Cyber Crime | PLS | Political Science | 3 | Political and legal issues in computer- and Internet-based crime, including child pornography, cyber fraud, and identity theft; prevention of cyber crime and responsibilities of computer owners and Internet servers.<br>UG | LE | Lecture

Spring 2021 | PSY8430 | 8430 | Physical Ergonomics | PSY | Psychology | 2 | This addresses the physical demands of work, with an emphasis on cognitive work in technical settings.<br>GR | SE | Seminar

Spring 2021 | SOC3110 | 3110 | Sociology of Religion | SOC | Sociology | 3 | Explores the influence that various religions have on society and, in turn, on the effect of social structure and culture on religion. Attention given to American religiosity as well as religion in other cultures.<br>UG | LE | Lecture

Spring 2021 | PSY4130 | 4130 | Psy in Film Cap | PSY | Psychology | 3 | Communication-intensive seminar integrating knowledge examining psychology in film. Integrated Writing course.<br>UG | SE | Seminar

Spring 2021 | SOC3200 | 3200 | Explore Social Problems | SOC | Sociology | 3 | Focuses on specific social problems. Topics vary.<br>UG | LE | Lecture

Spring 2021 | EDL9940 | 9940 | Adv Sem for Ed Leaders | EDL | Educational Leadership | 1 | A synthesizing course reviewing the concepts, skills, emerging trends, and best practices relating to the field of educational leadership.<br>GR | SE | Seminar

Spring 2021 | BMS7530 | 7530 | Molecular Signalling | BMS | Biomedical Sciences | 3 | Also listed as BMB 7530. A molecular analysis of information transfer into and within cells.<br>GR | LE | Lecture

Spring 2021 | RHB3040 | 3040 | Rehab Case Management | RHB | Rehabilitation | 3 | Interviewing, case recording, writing rehabilitation plans with appropriate justifications, and case management.<br>UG | LE | Lecture

Spring 2021 | ATR7100 | 7100 | Essentials Athletic Training | ATR | Athletic Training | 3 | Fundamental acquisition of knowledge regarding the practice of athletic training. Foundations of conceptual overview will include promotion of professional responsibility and introductory skills required for clinical practice.<br>GR | LE | Lecture

Spring 2021 | FIN3110 | 3110 | Financial Management II | FIN | Finance | 3 | Emphasizes financial decisions. Topics include dividend policy, current asset management and financing, derivatives and risk management, international finance, hybrid forms of financing, and mergers and acquisitions.<br>UG | LE | Lecture

Spring 2021 | MGT3110 | 3110 | Bus Ethics & Ldr Dev | MGT | Management | 3 | Development of competencies in business ethics and leadership. Integrated Writing course.<br>UG | LE | Lecture

Spring 2021 | MP2320 | 2320 | Motion Picture Hist II | MP | Motion Picture | 3 | Historical development of the art of the film from the mid 20th century to the present. Consideration of American and world cinema and the relation of motion pictures to sociocultural conditions. Integrated Writing course.<br>UG | LE | Lecture

Spring 2021 | PTX8014 | 8014 | Integr Pharm/Tox Methods | PTX | Pharmacology/Toxicology | 3 | This course provides basic and general principles on animal handling, caring and experimental design. It instructs basic techniques in drug dosing and administration, animal surgery, tissue sample collection. Emphasizes Biomedical Science's current methods.<br>GR | LL | Lecture/Lab Combination

Spring 2021 | PSY6120 | 6120 | Applied Sports Psy Cap | PSY | Psychology | 3 | Communication-intensive seminar integrating knowledge within Sports Psychology.<br>GR | SE | Seminar

Spring 2021 | MGT1900 | 1900 | Character & Competence I | MGT | Management | 3 | An introduction to the competence, character, and commitment required to achieve excellence in organizations. An opportunity for students to reinterpret their goals and identify steps that can be taken while in college toward success and well-being.<br>UG | LE | Lecture

Spring 2021 | MP2810 | 2810 | Intermediate MP Prod I | MP | Motion Picture | 3 | Production of silent motion picture projects and audio projects under faculty supervision. Instruction in narrative technique, visual structure, and shooting and finishing a motion picture.<br>UG | LL | Lecture/Lab Combination

Spring 2021 | CLS5400 | 5400 | Art & Archaeology | CLS | Classics | 3 | Greece in the Bronze Age; classical Greece and Rome; and selected areas of Greek and Roman art and archaeology.<br>GR | LE | Lecture

Spring 2021 | PSY4710 | 4710 | Sig Det Theory Psy Cap | PSY | Psychology | 3 | Communication-intensive seminar integrating knowledge on signal detection theory in psychology. Integrated Writing course.<br>UG | SE | Seminar

Spring 2021 | GR4570 | 4570 | Readings in Greek Prose | GR | Greek | 3 | Prose narrative in Greek. Authors may include the Hippocratic Corpus, Strabo, Pausanias, Athenaeus and Lucian.<br>UG | LE | Lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Department</th>
<th>Division</th>
<th>Type</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>ML3130</td>
<td>3130</td>
<td>Russian Lit in Translation</td>
<td>ML</td>
<td>Modern Languages</td>
<td>3</td>
<td>Selected works of foreign literature studied in English translation. Russian literature.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6770</td>
<td>6770</td>
<td>MA: World Lang: C&amp;M II</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Focus on pK-5 first and second language acquisition.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME6310</td>
<td>6310</td>
<td>Ergonomics</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Introduction to the application of ergonomic principles to the industrial environment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3420</td>
<td>3420</td>
<td>Japanese Religions</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Survey of historical and contemporary religious life in Japan.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7130</td>
<td>7130</td>
<td>App Psych Learning Thery</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>3</td>
<td>Selected theories of learning and their value to instructional practices. Emphasis on the relationships among learning theories, learner characteristics, motivational theories, and instructional practices.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE6500</td>
<td>6500</td>
<td>Spec Studies in ECE</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>0.5</td>
<td>Independent Study in a selected area of Early Childhood Education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX8016</td>
<td>8016</td>
<td>Neuropharmacology</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>The aim of this course is to give an overview of neuropharmacology that includes basic principles of drug action in neurons, a description of major neurotransmitter systems in the brain and their pharmacology, with examples of their clinical and therapeutic relevance.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7130</td>
<td>7130</td>
<td>Cont Control Sys Lab</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>1</td>
<td>Laboratory supporting BMS 7120. Students will experience hands on learning in lab environment. Application and testing of control systems theory with electromechanical systems.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE4830</td>
<td>4830</td>
<td>Integrating Academ CTE</td>
<td>CTE</td>
<td>Career and Technical Education</td>
<td>3</td>
<td>Per state requirements, CTE educators must know how to incorporate academic standards into every day lessons. Includes techniques on integrating core academics into technical programming and instruction.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME4920</td>
<td>4920</td>
<td>BME Design II</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Segment two of the BME senior design sequence. Practicum results in the final engineering design and completion of the design project. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT3100</td>
<td>3100</td>
<td>Advanced Illustration</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>Use of Illustrator for technical purposes such as creating logos and other files for the Web.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO7010</td>
<td>7010</td>
<td>Selected Topics in Bio</td>
<td>BIO</td>
<td>Biology</td>
<td>1</td>
<td>Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN3010</td>
<td>3010</td>
<td>Ballet III</td>
<td>DAN</td>
<td>Dance</td>
<td>3</td>
<td>Vocabulary, techniques, and theory of advanced ballet. Emphasis on body alignment and flexibility.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1040B</td>
<td>1040B</td>
<td>Army Fitness Training</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Army Fitness Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SAA4110</td>
<td>4110</td>
<td>Spec Topics: Campus Pgmr</td>
<td>SAA</td>
<td>Student Affairs in Higher Ed</td>
<td>1</td>
<td>Topics related to the development of student organizations and student leaders.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG1100</td>
<td>1100</td>
<td>Acad. Writing &amp; Reading</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Introduces students to principles of effective written communication and critical reading. Stresses invention, drafting, revising, editing, and self-assessment, along with effective critiquing and collaborating.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1260A</td>
<td>1260A</td>
<td>H2O Deep Conditioning</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of H2O Deep Conditioning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY6450</td>
<td>6450</td>
<td>Integ Phy Sc &amp; Math I</td>
<td>PHY</td>
<td>Physics</td>
<td>4</td>
<td>Integration of physics and mathematics, fulfilling science and math standards, physics education issues, inquiry teaching practices, and assessment. Application of these to science and math process skills, measurement, and properties of matter, kinematics, forces and energy transfers.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS4280</td>
<td>4280</td>
<td>Combinatorics and Graphs</td>
<td>CS</td>
<td>Computer Science</td>
<td>4</td>
<td>Permutations, combinatorics, generating functions, recurrence relations, and Polya's theory of counting; methods, results, and algorithms of graph theory, with emphasis on graphs as mathematical models applicable to organizational and industrial situations.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Instruction Mode</td>
<td>Type</td>
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<tr>
<td>BIO4030</td>
<td>4.030</td>
<td>Topics in Modern Biology</td>
<td>BIO Biology</td>
<td>Lecture</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PSY9950</td>
<td>9.950</td>
<td>Directed Study</td>
<td>PSI Professional Psychology</td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>BMS7421</td>
<td>7.421</td>
<td>Rehab Eng Systems I</td>
<td>BMS Biomedical Sciences</td>
<td>Lecture</td>
<td>Lecture</td>
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</tr>
<tr>
<td>ATR3620</td>
<td>3.620</td>
<td>Assess Ath Injuries II</td>
<td>ATR Athletic Training</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>P&amp;N7750</td>
<td>7.750</td>
<td>Neuroscience &amp; Phys</td>
<td>P&amp;N Physiology &amp; Neuroscience</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>FR4030</td>
<td>4.030</td>
<td>Adv Studies/Lang Civiliz</td>
<td>FR French</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>EE2020</td>
<td>2.020</td>
<td>Intro to Mechatronics</td>
<td>EE Electrical Engineering</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>PHY7530</td>
<td>7.530</td>
<td>Ultrafast Optics</td>
<td>PHY Physics</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>TIH2440</td>
<td>2.440</td>
<td>Acting II</td>
<td>TH Theatre</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>PHL3670</td>
<td>3.670</td>
<td>Philosophy of Mind</td>
<td>PHL Philosophy</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>PLS4520</td>
<td>4.520</td>
<td>Intl Human Rights</td>
<td>PLS Political Science</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>ME3310</td>
<td>3.310</td>
<td>Thermodynamic s I</td>
<td>ME Mechanical and Materials Engr</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>EE5310</td>
<td>5.310</td>
<td>Devices and Circuits</td>
<td>EE Electrical Engineering</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>EGR8910</td>
<td>8.910</td>
<td>PhD Seminar</td>
<td>EGR Engineering</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
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</tr>
<tr>
<td>RHB3680</td>
<td>3.680</td>
<td>Impact of HIV</td>
<td>RHB Rehabilitation</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>PSY8240</td>
<td>8.240</td>
<td>Reasoning</td>
<td>PSY Psychology</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>ATR7000</td>
<td>7.000</td>
<td>Orthopedic Anatomy</td>
<td>ATR Athletic Training</td>
<td>Lecture</td>
<td>Lecture</td>
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<tr>
<td>CS6900</td>
<td>6.900</td>
<td>Special Topics in CS</td>
<td>CS Computer Science</td>
<td>Lecture</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>DAN2120</td>
<td>2.120</td>
<td>Modern Dance II</td>
<td>DAN Dance</td>
<td>ST</td>
<td>Studio</td>
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<tr>
<td>Course Code</td>
<td>Fall 2021</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>ME1030</td>
<td>1030</td>
<td>Fund of Engineering Design</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>2</td>
<td>Introduction to the principles and practice of mechanical and materials engineering design. Fundamental design philosophy using a hands-on approach, including topics such as safety, ethics, and product liability. Teamwork and communication skills are stressed.</td>
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</tr>
<tr>
<td>SOC2700</td>
<td>2700</td>
<td>Intro to CJ in Society</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Overview of the essential functions, processes, and structure of key agencies responsible for the administration of justice in the U.S. (police, courts, and corrections), as well as those of the criminal justice system as a whole. Consideration of how the system affects, and is affected by, vectors of social inequality (e.g. age, race, class, gender).</td>
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<tr>
<td>P&amp;N8600</td>
<td>8600</td>
<td>Prim Biomedical Research</td>
<td>P&amp;N</td>
<td>Physiology &amp; Neuroscience</td>
<td>1</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research. PBR provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
<td></td>
</tr>
<tr>
<td>ME6430</td>
<td>6430</td>
<td>Aeronautics</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Avionics technology. Standard atmosphere, basic aerodynamics, theory of lift, airplane performance, principles of stability and control, astronautics, and propulsion concepts. Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D or Undergraduate level ME 5750 Minimum Grade of D or Undergraduate level ME 5310 Minimum Grade of D or Graduate level ME 5310 Minimum Grade of D or Graduate level ME 5750 Minimum Grade of D.</td>
<td></td>
</tr>
<tr>
<td>EE7330</td>
<td>7330</td>
<td>Modern Radar Theory</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Application of probability and random process to the performance characterization of range/doppler radar. Development of the concepts of resolution, SNR, ambiguity function, and pulse compression, and their applications to radar systems design. Consideration is also given to coherent imaging radar. Department Managed Prerequisite(s): Undergraduate level EE 4750 Minimum Grade of C or Graduate level EE 6750 Minimum Grade of C.</td>
<td></td>
</tr>
<tr>
<td>PTX7005</td>
<td>7005</td>
<td>MD/MS Capstone</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>1</td>
<td>This course was developed to give the medical student completing the clinical investigation M.S. graduate program a chance to showcase their research completed as an MD/MS student. The timeline can be rearranged depending on the schedule of the student and the faculty member.</td>
<td></td>
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<tr>
<td>KNH1240B</td>
<td>1240B</td>
<td>Golf</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Golf. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>EC7830</td>
<td>7830</td>
<td>Research in Economics</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Titles vary. Intensive reading or research in selected fields of economics. Department Managed Prerequisite(s): Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5100 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D.</td>
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</tr>
<tr>
<td>ECE3800</td>
<td>3800</td>
<td>Language Development &amp; ELL</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Language development, causes and effects of communication disorders, evaluations, interventions, second language acquisition, planning and implementing culturally responsive lessons and classroom environments.</td>
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</tr>
<tr>
<td>DAN4040</td>
<td>4040</td>
<td>Music Theatre Dance III</td>
<td>DAN</td>
<td>Dance</td>
<td>3</td>
<td>Advanced group classes applying Ballet, Jazz and Modern Dance techniques to Musical Theatre Dance.</td>
<td></td>
</tr>
<tr>
<td>ME6570</td>
<td>6570</td>
<td>Energy Materials</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Students will understand the principles and the materials of advanced electrochemical energy storage systems including batteries, fuel cells, and supercapacitors. In this course, students will gain an understanding of material structures, material composition, and material morphologies in relation to applicable properties for electrochemical energy storage and conversion systems. Students will also be introduced to state-of-the-art materials research and development in these systems. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and Undergraduate level ME 3310 Minimum Grade of D or Graduate level ME 5310 Minimum Grade of D or Graduate level ME 3750 Minimum Grade of D or Graduate level ME 3750 Minimum Grade of D or Graduate level ME 5750 Minimum Grade of D.</td>
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<tr>
<td>SLI3000</td>
<td>3000</td>
<td>Ethics &amp; Laws in Interp</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Ethical standards of practice, legal rights and federal legislation impacting deaf and interpreters. Critical thinking, self-awareness, emotional intelligence, and application of the Code of Professional Conduct will be emphasized.</td>
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<tr>
<td>GEO6000</td>
<td>6000</td>
<td>Climate Meteorology</td>
<td>GEO</td>
<td>Geography</td>
<td>3</td>
<td>This is a basic course in meteorology that covers clouds, humidity, precipitation, winds, fronts, forecasting, and climate. The desired outcome is to understand the complex processes that lead to severe weather and climate change.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO1010</td>
<td>1010</td>
<td>Medical Terminology</td>
<td>BIO</td>
<td>Biology</td>
<td>3</td>
<td>Sequential, programmed study of the language of health care. Illustrations, practice quizzes and exercises support the material and reinforce learning.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7610</td>
<td>7610</td>
<td>Seminar in ILA</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Advanced study of theory and pedagogy of the language arts: reading, writing, listening, speaking, viewing, and/or visually representing.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4090</td>
<td>4090</td>
<td>Intro to R Biology Apps</td>
<td>BIO</td>
<td>Biology</td>
<td>3</td>
<td>Programming biostatistics applications in the statistical software package R.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6050</td>
<td>6050</td>
<td>The Middle Ages</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines the period following the decline of the Roman Empire to ca.1450 and can include European, Islamic, and Byzantine civilizations. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SCM7990R</td>
<td>7990R</td>
<td>SCM Capstone Project Rec</td>
<td>SCM</td>
<td>Supply Chain Management</td>
<td>0</td>
<td>Required recitation for SCM 7990.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH6500</td>
<td>6500</td>
<td>Spec Topics Archaeology</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>Advanced graduate study of various specialized aspects of archaeology.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW7240</td>
<td>7240</td>
<td>Agency Administration</td>
<td>SW</td>
<td>Social Work</td>
<td>0</td>
<td>Teaches advanced generalist social work direct practice skills with communities and organizations. Skills applied during stages of social work intervention: Engagement, Assessment, Intervention, and Evaluation. Content includes community organization, locality development, advocacy, legislative policy change, and grant writing to support funding of social service organizations.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR1980</td>
<td>1980</td>
<td>Special Topics in EGR</td>
<td>EGR</td>
<td>Engineering</td>
<td>1</td>
<td>Special topics in Engineering and Computer Science.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES2010</td>
<td>2010</td>
<td>Hydrology Water Resource</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Hydrology and the distribution and availability of water resources; natural and anthropogenic processes that influence water quantity and quality; water quality and contamination issues; water resources and water-rights conflicts.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6160L</td>
<td>6160L</td>
<td>Stratigraphy &amp; Sed. Lab</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>0</td>
<td>Required laboratory for EES 6160.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS7995</td>
<td>7995</td>
<td>Perf. Document/Recital</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>Work on the capstone experience in the Master of Music in Performance degree, and in the recital option of the Master of Music in Music Education degree. Includes preparation and performance of a performance recital and an accompanying scholarly document relating to research connected to the performance recital.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ABS7240</td>
<td>7240</td>
<td>Social Problems</td>
<td>ABS</td>
<td>Applied Behavioral Science</td>
<td>3</td>
<td>Analyzes how social problems are identified, legitimated and addressed in contemporary society. Considers the impact of social structure on generating social problems and the role of social movements in constructing and resolving social problems.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4800</td>
<td>4800</td>
<td>UG Special Topics in EE</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Undergraduate special topics in electrical engineering. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG4870</td>
<td>4870</td>
<td>Intelligent Control Sys</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3</td>
<td>Foundations of fuzzy set theory, system modeling using fuzzy rules, structure of fuzzy controllers and PID fuzzy controller design. Also included are neural network foundations, single layered/multi-layered perceptions, learning rules, basics of adaptive controls and adaptive neural control.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS2550</td>
<td>2550</td>
<td>Piano for Music Ed I</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>Class instruction in functional keyboard skills. Continuation of MUS 1560. Special emphasis on skills needed for vocal/choral music education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4200L</td>
<td>4200L</td>
<td>Micropaleontolgy Lab</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>0</td>
<td>Required laboratory for EES 4200. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ABS7230</td>
<td>7230</td>
<td>Modern Social Theory</td>
<td>ABS</td>
<td>Applied Behavioral Science</td>
<td>3</td>
<td>Survey of social theories that form the foundations of sociology and examine major contemporary social problems of the modern world</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED56900</td>
<td>6900</td>
<td>Teach Indiv with Except.</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Historical and current legal, philosophical and education issues surrounding the definition, identification, causes/prevalence of specific exceptionalities, service delivery/placement options and multidisciplinary team process across education and community settings.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT4850</td>
<td>4850</td>
<td>Special Topics in Marketing</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
<td>Seminar on special topics such as consumerism and social issues, nonprofit organization marketing, advanced retailing management, channels of distribution, pricing, or persuasion. Topics vary. Requires approval of the department chair and the faculty member.</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Dept</td>
<td>Course Type</td>
<td>Credits</td>
<td>Prerequisites</td>
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<tr>
<td>Spring 2021</td>
<td>ME7520 7520</td>
<td>Hydrogen Energy</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>This course focuses on hydrogen as a renewable and clean means of energy storage, and discusses hydrogen production and storage, as well as an overview of hydrogen energy conversion. Department Managed Prerequisite(s): (Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 5310 Minimum Grade of D) and (Undergraduate level ME 3750 Minimum Grade of D or Undergraduate level ME 5750 Minimum Grade of D)</td>
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<tr>
<td>Spring 2021</td>
<td>PLS6610 6610</td>
<td>Compar. Social Movements</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Examines group behavior motivated by the desire to change or maintain political, economic, cultural or social systems. Examination of movements in countries around the world, including cross-national and global movements.</td>
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<tr>
<td>Spring 2021</td>
<td>ART3480 3480</td>
<td>Intermediate Painting I</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Emphasis on principles of pictorial organization. Attention to the relationship of subject matter and abstraction as related to contemporary and traditional approaches. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 3470 Minimum Grade of D</td>
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<tr>
<td>Spring 2021</td>
<td>BME6720 6720</td>
<td>Biomedical Optics</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Quantitative biomedical optics, principles and applications of light propagation in biological tissues; optical imaging contrasts, light transport models including photon diffusion in living tissue; optical devices for light-based diagnostics for cancer detection, brain function monitoring; light-based therapies as alternative treatment for cancer and brain diseases. Application of concepts in lab experiments. Presentation of translational research of optical methods and clinical applications. Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D and (Undergraduate level ANT 2120 Minimum Grade of D or Undergraduate level ANT 3120 Minimum Grade of D or Graduate level ANT 5120 Minimum Grade of D)</td>
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<tr>
<td>Spring 2021</td>
<td>CS1000 1000</td>
<td>Technology and Society</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Examines and evaluates the consequences of technology on individuals, organizations and society to recognize its benefits, potential, and limitations. Explores current social, ethical, legal and philosophical topics to understand how the Digital Revolution impacts society. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>PPH6300 6300</td>
<td>Environmental Health</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>Students taking this course will develop a broad knowledge base in the multidisciplinary field of environmental health. The class will focus on the topics of environmental health that have the greatest affect on the community, such as food-borne health hazards, zoonotic disease, housing, water treatment, and solid and hazardous waste and substances. Contemporary concerns, such as climate change, environmental disaster, and the built environment, will also be thoroughly discussed.</td>
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<tr>
<td>Spring 2021</td>
<td>CEG4324 4324</td>
<td>Digital Circuit Design</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3</td>
<td>Digital design with behavioral level VHDL; application of VHDL to the design, analysis, and synthesis of digital integrated circuits; field programmable gate arrays (FPGAs) and design and application of digital integrated circuits using FPGAs. CAD tools, devices and boards will be used in the lab portion of the course. Topics include registers, counters, memory devices, register-level design, microcomputer system organization. Students must show competency in design of digital systems.</td>
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<tr>
<td>Spring 2021</td>
<td>TTW6480 6480</td>
<td>TTW Int: Voc Sped</td>
<td>TTW</td>
<td>Transition to Work</td>
<td>1</td>
<td>Students assigned to an experienced vocational special educator in the field for observing, researching, and practicing skills in the area of vocational special education, particularly those related to transition of individuals with disabilities.</td>
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<tr>
<td>Spring 2021</td>
<td>PLS2120 2120</td>
<td>American National Govern</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Introductory survey of American national government and politics including study of political participation, interest groups, political parties, leadership, mass media, elections and campaigns, the Constitution, presidency, Congress, bureaucracy, and the courts.</td>
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<tr>
<td>Spring 2021</td>
<td>PN8990 8990</td>
<td>Physiology Research</td>
<td>PN</td>
<td>Physiology &amp; Neuroscience</td>
<td>1</td>
<td>Supervised thesis research.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6620 6620</td>
<td>Digital Circuit Design</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Digital design with behavioral level VHDL; application of VHDL to the design, analysis, and synthesis of digital integrated circuits; field programmable gate arrays (FPGAs); and design and application of digital integrated circuits using FPGAs. CAD tools, devices, and boards will be used in the lab portion of the course. Topics include registers, counters, memory devices, register-level design, microcomputer system organization. Students must show competency in the design of digital systems.</td>
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<tr>
<td>Spring 2021</td>
<td>SOC3230 3230</td>
<td>Intensive Alcohol Ed</td>
<td>SOC</td>
<td>Sociology</td>
<td>1</td>
<td>Observation of and participation in intensive alcohol education program which presents individuals with factual material about the effects of substance abuse.</td>
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<tr>
<td>Class Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Division</td>
<td>Course Description</td>
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<tr>
<td>SW6850</td>
<td>6</td>
<td>Gero Cert Project</td>
<td>SW</td>
<td>Social Work</td>
<td>Applied research in an agency setting that serves older adults under the guidance of the gerontology certificate director. Department Managed Prerequisite(s): Graduate level SW 6620 Minimum Grade of D or Graduate level SOC 6820 Minimum Grade of D.</td>
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<tr>
<td>ATR2620</td>
<td>2</td>
<td>Emergency Medical Response</td>
<td>ATR</td>
<td>Athletic Training</td>
<td>Recognition and management of athletic emergencies and relationships of allied health care providers.</td>
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</tr>
<tr>
<td>KNH1680</td>
<td>1</td>
<td>Swimming: Advanced</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>Advanced level of skills and knowledge in Swimming: Advanced. Competency-based approach.</td>
<td></td>
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</tr>
<tr>
<td>URS4960</td>
<td>4</td>
<td>Transit Internship</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>Senior-level internship in the offices of a local public transit agency.</td>
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</tr>
<tr>
<td>ATH2100</td>
<td>4</td>
<td>Intro to Bio Anth</td>
<td>ATH</td>
<td>Anthropology</td>
<td>An overview of human biology and behavior, including human evolution, primate behavior, and human physical variation.</td>
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<tr>
<td>PTX9200</td>
<td>1</td>
<td>Pharm Clinical Research</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>This class is designed to give pharmacology and medical students supervised research involving human subjects.</td>
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<tr>
<td>BMB4450</td>
<td>3</td>
<td>Medical Biochemistry</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>Emphasizes biochemistry and the biochemical principles of diseases.</td>
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<tr>
<td>EDL8330</td>
<td>3</td>
<td>Teacher Leader Seminar</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>Critical and current issues relevant to the development of classroom teachers as school leaders.</td>
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<tr>
<td>PHL5320</td>
<td>3</td>
<td>20th C Political PHI</td>
<td>PHL</td>
<td>Philosophy</td>
<td>A close study of major thinkers in 20th century political philosophy. Topics vary, focusing on one or more themes such as rights, democracy, liberalism, pluralism, secularism, tolerance, torture, terrorism, or totalitarianism. Readings from thinkers such as Hannah Arendt, Herbert Marcuse, Jürgen Habermas, Michel Foucault, Jacques Derrida, John Rawls, Richard Rorty, G. A. Cohen, Alasdair Maclntyre, Charles Taylor, Martha Nussbaum, and Giorgio Agamben.</td>
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</tr>
<tr>
<td>ISG7200</td>
<td>3</td>
<td>Theor Found of Gftd &amp; T</td>
<td>ISG</td>
<td>Intervention Specialist Gifted</td>
<td>Historical perspective, characteristics and major theories of those with gifted and talented educational needs.</td>
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<tr>
<td>MI4750</td>
<td>4</td>
<td>Pathogenic Mechanisms</td>
<td>MI</td>
<td>Microbiology &amp; Immunology</td>
<td>Human-microbial pathogen interactions, emphasizing the molecular basis of the pathogenic mechanisms. Complexities of interactions between microbes and their human hosts.</td>
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</tr>
<tr>
<td>BMS8690</td>
<td>3</td>
<td>Quant Aspert Membran Trns</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>Employs a quantitative approach to the properties of solutes, water, bio-electrical phenomena, the properties of transport systems that move solutes across biological membranes, and the interactions of these solutes with membranes. Completion of calculus, cell biology, and cellular physiology and biophysics required. May be taken for letter grade or pass/unsatisfactory.</td>
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<tr>
<td>EE7910</td>
<td>1</td>
<td>Full-Time CPT in EE</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>Practical work experience in graduate level electrical engineering.</td>
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<tr>
<td>ENGS0150</td>
<td>3</td>
<td>Selected Subjects</td>
<td>ENG</td>
<td>English</td>
<td>Problems, approaches, and topics in the field of English. Topics vary.</td>
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<tr>
<td>HIST4980</td>
<td>4</td>
<td>History Honors Project</td>
<td>HIST</td>
<td>History</td>
<td>May range from library research to field training.</td>
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<tr>
<td>ME6560</td>
<td>3</td>
<td>Wind Power</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>Power in the wind, the wind turbine and its parts, performance of wind turbines, and economics of wind turbines will be presented. Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D or Graduate level ME 5350 Minimum Grade of D.</td>
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<tr>
<td>ED4500</td>
<td>0.5</td>
<td>Independent Study in ED</td>
<td>ED</td>
<td>Education</td>
<td>Independent study in a selected area of education.</td>
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<tr>
<td>FIN4210</td>
<td>3</td>
<td>Financial Management III</td>
<td>FIN</td>
<td>Finance</td>
<td>Applies financial concepts and analytical techniques to financial decision making. Extensive use of cases.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisites</td>
<td>Year</td>
<td>Type</td>
<td>Location</td>
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<tr>
<td>CS3250</td>
<td>Comp Data Analysis</td>
<td>3</td>
<td>Introduction to the representation, manipulation, and analysis of large datasets from a user's perspective. Topics include data filtering, clustering, classification, and data mining. The basic principles behind each technique are first introduced and then numerical experiments demonstrate their applicability. Standard software and programming languages are used.</td>
<td>Department Managed Prerequisite(s): (Undergraduate level MTH 2240 Minimum Grade of D or Undergraduate level MTH 2280 Minimum Grade of D or Undergraduate level MTH 2300 Minimum Grade of D) and (Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D) and (Undergraduate level STT 1600 Minimum Grade of D or Undergraduate level STT 3600 Minimum Grade of D)</td>
<td>Spring 2021</td>
<td>UG LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>SM4990</td>
<td>ASK - Research</td>
<td>4990</td>
<td>Students enrolled in the ASK Program in the College of Science and Mathematics actively perform hands-on research projects under the guidance of faculty mentors. Faculty mentors will guide teams of students through research projects, and assign grades to students on an individual basis.</td>
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<td>UG LB</td>
<td>Lab</td>
</tr>
<tr>
<td>ENG3550</td>
<td>Teaching Shakespeare</td>
<td>3550</td>
<td>Survey and discussion of plays by Shakespeare in the context of his times and with attention to teaching Shakespeare in high school. Topics include Shakespeare's texts and their performance in film and theater.</td>
<td>Department Managed Prerequisite(s): (Undergraduate level ME 4720 Minimum Grade of D)</td>
<td>Spring 2021</td>
<td>UG LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>ENG6830</td>
<td>Adv Fiction Wrtg Seminar</td>
<td>6830</td>
<td>Advanced practice in writing and revising fiction, refining craft and style, with the aim of producing fiction of superior merit; group discussion of manuscripts, and reading and discussion of contemporary fiction.</td>
<td>Department Managed Prerequisite(s): Undergraduate level ME 3210 Minimum Grade of D</td>
<td>Spring 2021</td>
<td>GR SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>ME4210</td>
<td>Mechanical Vibration</td>
<td>4210</td>
<td>Modeling and analysis of single and multi-degree of freedom systems under free and forced vibration and impact, Lagrangian and matrix formulations, energy methods, and introduction to random vibrations. (2.5 hours lecture, 1 hour lab)</td>
<td>Department Managed Prerequisite(s): Undergraduate level ME 3210 Minimum Grade of D</td>
<td>Spring 2021</td>
<td>UG LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>PSY7060</td>
<td>Perception</td>
<td>7060</td>
<td>Study of the active processes by which organisms gather, interpret, and respond to environmental stimuli.</td>
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<td>Spring 2021</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>DAN1110</td>
<td>Modern Dance I</td>
<td>1110</td>
<td>Modern dance technique class for pre-professional dancers. Emphasis on helping students become strong, versatile dancers by expanding their body's range of motion while emphasizing alignment, coordination, strength and flexibility of the torso.</td>
<td>University Managed Prerequisite(s): Undergraduate level ME 3210 Minimum Grade of D</td>
<td>Spring 2021</td>
<td>UG ST</td>
<td>Studio</td>
</tr>
<tr>
<td>CEG4440</td>
<td>Android Int and Security</td>
<td>4440</td>
<td>Study the internals of the Android mobile OS such as Messaging, Graphics, Audio, Video, Camera, GPS, Networking, File System, Touch Sensors, and other subsystems. Study the combined impact of these on the architecture, design, and security of mobile computing, in the context of Android.</td>
<td>Department Managed Prerequisite(s): Undergraduate level ME 3210 Minimum Grade of D</td>
<td>Spring 2021</td>
<td>UG LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS6280</td>
<td>Naft Security Politics</td>
<td>6280</td>
<td>Study of U.S. national defense and security policy process and the major strategic issues facing the U.S. government.</td>
<td>Department Managed Prerequisite(s): Undergraduate level ME 3210 Minimum Grade of D</td>
<td>Spring 2021</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>ME7720</td>
<td>Engineering Polymers II</td>
<td>7720</td>
<td>Polymer physics including phase diagrams, phase separation, the amorphous and crystalline states, liquid crystals, thermal transitions, viscoelasticity and rheology, as well as deformation and fracture.</td>
<td>Department Managed Prerequisite(s): Undergraduate level ME 4720 Minimum Grade of D or Graduate level ME 6720 Minimum Grade of D and (Undergraduate level ME 3750 Minimum Grade of D or Graduate level ME 5750 Minimum Grade of D)</td>
<td>Spring 2021</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>SLI4710</td>
<td>Variable Topics in SLI</td>
<td>4710</td>
<td>Selected topics in the areas of interpreting or deafness are addressed on a workshop or a one-time course basis. Subject matter and titles vary.</td>
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<td>Lecture</td>
</tr>
<tr>
<td>IDL7210</td>
<td>Applied Learning Theory</td>
<td>7210</td>
<td>Introduction to multimedia learning theory and how theory can be integrated into instructional design.</td>
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<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>KNH1280A</td>
<td>H2O Moves with Step</td>
<td>1280A</td>
<td>Fundamental skills and knowledge of H2O Moves with Step. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>Lecture</td>
</tr>
<tr>
<td>PHY7110</td>
<td>Quantum Mechanics II</td>
<td>7110</td>
<td>Continuation of PHY7100. Principles of non-relativistic quantum mechanics, Schroedinger's equation and matrix mechanics. Facility with applications to atomic, molecular, nuclear, solid state, spin, and biological systems.</td>
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<td>Lecture</td>
</tr>
<tr>
<td>MUE4920</td>
<td>Vocal Jazz Ensemble</td>
<td>4920</td>
<td>Development of performance skills in vocal jazz. Emphasis on jazz style and techniques, improvisation, and jazz theory. Audition required.</td>
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<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>UH2010</td>
<td>Studies in Humanities</td>
<td>2010</td>
<td>Explores the humanities comparatively, stressing similarities and differences in themes, methods, materials, theoretical constructs, and problems. Focuses on such topics as humanity and freedom or the city and the individual. Integrated Writing course.</td>
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<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME3512L</td>
<td>3512L</td>
<td>Bioelectronics II Laboratory</td>
<td>BME Biomedical Engineering</td>
<td>0</td>
<td>Required laboratory for BME 3512.</td>
<td>UG LB Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS7030</td>
<td>7030</td>
<td>Organization Theory</td>
<td>URS Urban Affairs</td>
<td>3</td>
<td>Analysis of the fundamental behavior concepts and processes involved in public sector organizations. Evaluation of approaches to major behavioral issues such as motivation, leadership, and management development.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6650</td>
<td>6650</td>
<td>19th-Century US History</td>
<td>HST History</td>
<td>3</td>
<td>Examines distinct periods in the 19th century (e.g., Civil War and reconstruction) and major topics such as slavery. Topics vary.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5810</td>
<td>5810</td>
<td>Anthropology of Religion</td>
<td>REL Religion</td>
<td>3</td>
<td>(Also listed as ATH 6020) Anthropological approach to the meaning and function of religion in social life and the nature of the thought or belief systems that gave rise to different forms of religious life. Emphasis on primitive and peasant societies.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE5040</td>
<td>5040</td>
<td>ECEG Math Instruction</td>
<td>ECE Education - Early Childhood</td>
<td>3</td>
<td>Methods for teaching middle level mathematics pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula and materials suitable for teaching fourth and fifth grade mathematics education.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW7170</td>
<td>7170</td>
<td>SW Capstone</td>
<td>SW Social Work</td>
<td>0</td>
<td>Implementation of a culminating research project following a rigorous qualitative and/or quantitative design to collect and analyze data to inform agency practice and/or policy decisions. Successful completion of culminating research project required for graduation.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7950</td>
<td>7950</td>
<td>Thesis</td>
<td>HST History</td>
<td>1</td>
<td>Independent work leading to a master's thesis.</td>
<td>GR IS Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7510</td>
<td>7510</td>
<td>Data Mining</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>Concepts, techniques, and applications of data mining. In addition, students will get hands-on data mining experience through projects.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7500</td>
<td>7500</td>
<td>Intro to Public History</td>
<td>HST History</td>
<td>3</td>
<td>Introduce students to the theory, methods, and practice of public history. Explores challenges of historical work in historic sites, museums, archives, and other public history settings. Introduction to career choices in the field of public history, along with issues of ethics, interpretation, and public memory.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4130</td>
<td>4130</td>
<td>Map Design with GIS</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>2</td>
<td>Theory and applications of Geographic Information Systems (GIS) and how to utilize the GIS functions to process field data for the production of a professional map. Geologic mapping will be the primary study case.</td>
<td>UG LL Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL4640</td>
<td>4640</td>
<td>Crisis Counseling</td>
<td>CNL Counseling</td>
<td>3</td>
<td>Background, theory, practice, and needs of crisis intervention within the helping professions. Explores a variety of crisis intervention models and community resources.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7950</td>
<td>7950</td>
<td>Thesis</td>
<td>ME Mechanical and Materials Engr</td>
<td>1</td>
<td>Masters thesis.</td>
<td>GR IS Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC3510</td>
<td>3510</td>
<td>Labor Economics</td>
<td>EC Economics</td>
<td>3</td>
<td>A study of labor market behavior and wage determination, addressing the impact of new technologies, global competition, and deindustrialization on American labor markets.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7330</td>
<td>7330</td>
<td>Seminar: Major Writers</td>
<td>ENG English</td>
<td>3</td>
<td>Reading, research, reports, and discussion on topics dealing with a single writer or a small group of writers either of the same milieu or linked by a common theme, style, or subject matter.</td>
<td>GR SE Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8350</td>
<td>8350</td>
<td>Data Driven Decisions</td>
<td>EDL Educational Leadership</td>
<td>1</td>
<td>Exploring the use of appropriate, meaningful data for making instructional, curricular, and assessment decisions as a normative professional standard.</td>
<td>GR LL Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7230</td>
<td>7230</td>
<td>The Study of Writing</td>
<td>ENG English</td>
<td>3</td>
<td>Current approaches to writing and the study of composition in the classroom. Topics include whole language, invention, revision, stylistics, editing, the analysis of student writing, and effective pedagogical practice.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ABS7910</td>
<td>7910</td>
<td>Graduate Thesis Research</td>
<td>ABS Applied Behavioral Science</td>
<td>1</td>
<td>Research for the Master's degree thesis.</td>
<td>GR IS Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MP2820</td>
<td>2820</td>
<td>Intermediate MP Prod II</td>
<td>MP Motion Picture</td>
<td>3</td>
<td>Production of short motion picture and audio projects under faculty supervision. Further instruction in the technique and aesthetics of motion pictures. Includes an introduction to sync-sound.</td>
<td>UG LL Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS7700</td>
<td>7700</td>
<td>Info Secr &amp; Assurance</td>
<td>MIS Management Information Systems</td>
<td>3</td>
<td>This survey course will provide an understanding of communications and IT infrastructures, their vulnerability as well as the size and complexity of security threats faced by enterprises. This course has a fee that is non-refundable once the term begins.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3560</td>
<td>3560</td>
<td>Speech III</td>
<td>TH Theatre</td>
<td>2</td>
<td>Techniques in voice and speech to strengthen and expand the student's instrument and skills. Applications made to classical acting texts.</td>
<td>UG LL Lecture/Lab Combination</td>
</tr>
<tr>
<td>Semester</td>
<td>Code</td>
<td>Title</td>
<td>Instructor</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
<td>Type</td>
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<tr>
<td>Spring</td>
<td>KNH1720</td>
<td>Tennis</td>
<td>KNH</td>
<td>1</td>
<td>Kinesiology &amp; Health Fundamental skills and knowledge of Tennis. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>GR</td>
<td>LB</td>
</tr>
<tr>
<td>Spring</td>
<td>ED7470</td>
<td>Reading Recovery II</td>
<td>ED</td>
<td>6</td>
<td>Education Teachers learn to apply Marie Clay's theory of literacy processing while teaching Reading Recovery students. Key concepts include targeted instruction through assessment, the reciprocity of reading and writing, and teaching for accelerated learning.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring</td>
<td>PSY4210</td>
<td>Info Processing Cap</td>
<td>PSY</td>
<td>3</td>
<td>Psychology Communication-intensive seminar integrating knowledge on information processing skills such as selective attention, pattern recognition, reading, problem solving, and human performance. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring</td>
<td>FR3700</td>
<td>Internship in French</td>
<td>FR</td>
<td>1</td>
<td>French Supervised use of French in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum 45 hours a semester for 1 credit, including at least 40 hours of on-site work. Senior standing and advisor permission required. Department Managed Prerequisite(s): Undergraduate level FR 3110 Minimum Grade of D and Undergraduate level FR 3120 Minimum Grade of D and one additional 3-credit hour upper-level French course Minimum Grade of D.</td>
<td>UG</td>
<td>IN</td>
</tr>
<tr>
<td>Spring</td>
<td>OIS1030</td>
<td>Professional Devel III</td>
<td>OIS</td>
<td>10.30</td>
<td>Office Information Systems Professional development in office procedures, dress, personality, leadership, and other aspects of business development.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>CSS8900</td>
<td>Special Topics in CS</td>
<td>CS</td>
<td>8900</td>
<td>Computer Science Special topics in computer science.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>EES6720</td>
<td>Epidemic &amp; Community Hlth</td>
<td>EES</td>
<td>6720</td>
<td>Earth &amp; Environmental Sciences Study of communicable and occupational diseases of contemporary importance; includes epidemiological investigation, environmental considerations, and control procedures.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>EDL9500</td>
<td>Practicum II: CIPD</td>
<td>EDL</td>
<td>9500</td>
<td>Educational Leadership The practicum provides significant opportunities for candidates to synthesize and apply the knowledge and skills identified in the district-level standards through substantial, sustained, standards-based work in real settings.</td>
<td>GR</td>
<td>IN</td>
</tr>
<tr>
<td>Spring</td>
<td>ED2800</td>
<td>Cultural Humility w/Youth</td>
<td>ED</td>
<td>2800</td>
<td>Education Examines historical and current racial, ethnic, gender, sexual orientation, linguistic, and social class stereotypes and biases as related to youth in the United States and globally. Students identify personal preconceptions and learn ways of becoming culturally sensitive and responsive working with youths. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>EDL7400</td>
<td>Legal &amp; Prof Issues</td>
<td>EDL</td>
<td>7400</td>
<td>Educational Leadership The legal framework of compulsion in education, the civil liberties of teachers, curriculum content, and academic freedom. Teachers rights, duties, and responsibilities to the education profession.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>EE6470</td>
<td>Antenna Theory &amp; Design</td>
<td>EE</td>
<td>6470</td>
<td>Electrical Engineering Linear dipole antennas, antenna arrays, thin-wire antennas, moment method analysis examples (vee dipole, folded dipole, etc.), and broadband and frequency-independent antennas. Computer-aided design and analysis of wire antennas, feed networks, and antenna arrays using antenna CAD software.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>KNH1680B</td>
<td>Swimming: Advanced</td>
<td>KNH</td>
<td>1680B</td>
<td>Kinesiology &amp; Health Advanced level of skills and knowledge in Swimming: Advanced. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring</td>
<td>KNH1820A</td>
<td>Winter Camping</td>
<td>KNH</td>
<td>1820A</td>
<td>Kinesiology &amp; Health Fundamental skills and knowledge of Winter Camping. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring</td>
<td>PTX8007</td>
<td>Career Planning-Pharmac&amp;Tox</td>
<td>PTX</td>
<td>8007</td>
<td>Pharmacology/Toxicology Success in one’s academic and professional career can be enhanced by taking an active and intentional role in planning future steps and goals. Students in this course will be exposed to the many different career paths that are available in the field of Pharmacology and Toxicology and will work to discover the roles and activities that they find most suitable and rewarding. Students will learn how to best identify and obtain job positions appropriate for their skill sets in their field of interest. Students will develop their own individual development plan (IDP) to maximize their potential for career enhancement and satisfaction.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>ISE4820</td>
<td>Supp Ch Analy &amp; Des</td>
<td>ISE</td>
<td>4820</td>
<td>Industrial &amp; Systems Engr Provides fundamental understanding of supply chain systems and their structure. Techniques for analysis and design of the components and interactions including forecasting, inventory, warehouse operations &amp; location, transportation and contemporary issues.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring</td>
<td>FR4820</td>
<td>Independent Reading</td>
<td>FR</td>
<td>4820</td>
<td>French Topics vary. Department Managed Prerequisite(s): (Undergraduate level FR 3120 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D).</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>Spring</td>
<td>PHL4020</td>
<td>Continental Phil Seminar</td>
<td>PHL</td>
<td>4020</td>
<td>Philosophy Focused study of a narrow theme or topic in the continental and European philosophical traditions. Topics vary, but will focus on an issue in phenomenology, hermeneutics, critical theory, psychoanalytic theory, or continental social and political philosophy. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Department</td>
<td>Course Title</td>
<td>Description</td>
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</tr>
<tr>
<td>GEO4980</td>
<td>4.00</td>
<td>GEO</td>
<td>Group Theory</td>
<td>Projects involve analysis of economic, social and cultural phenomena.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY9180</td>
<td>3.00</td>
<td>PSY</td>
<td>Intro to Group Theory</td>
<td>Overview of past, present, and emerging curriculum trends.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL5470</td>
<td>3.00</td>
<td>REL</td>
<td>Zen Buddhism</td>
<td>Survey of the history, doctrines, and practices of Zen Buddhism in China, Japan, and the West.</td>
<td></td>
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</tr>
</tbody>
</table>

**Spring 2021**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Department</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL5022</td>
<td>3.00</td>
<td>MIL</td>
<td>Applied Team Leadership Lab</td>
<td>Prepares cadet for six-week Leadership Development and Assessment Course. Cadet is required to lead squads of 9-12 in battle drills and patrolling in this cadet-led and cadre-supervised lab.</td>
</tr>
<tr>
<td>IB4780</td>
<td>4.00</td>
<td>IB</td>
<td>Hon: Ind Study in IB</td>
<td>Explores an area of particular interest in international business.</td>
</tr>
<tr>
<td>BIO1060</td>
<td>3.00</td>
<td>BIO</td>
<td>Global Eco and Diversity</td>
<td>Introduces non-science majors to global ecosystems, the biological principles and processes that have contributed to the diversity of species and natural processes and human actions that work together to shape the ecological balance of the earth.</td>
</tr>
<tr>
<td>DAN2080</td>
<td>2.00</td>
<td>DAN</td>
<td>Beginning Tap Dance II</td>
<td>Group class continues to introduce students to fundamentals of tap dance techniques.</td>
</tr>
<tr>
<td>PSY2140</td>
<td>3.00</td>
<td>PSY</td>
<td>Psychology of Social Media</td>
<td>This course examines the connections between psychology and social media.</td>
</tr>
<tr>
<td>EDL9150</td>
<td>9.15</td>
<td>EDL</td>
<td>Adv Data Driven Decision</td>
<td>Advanced studies exploring the use of appropriate, meaningful data for making instructional, curricular, and assessment decisions as a normative professional standard.</td>
</tr>
<tr>
<td>PHL3010</td>
<td>3.00</td>
<td>PHL</td>
<td>Ancient Philosophy</td>
<td>History of philosophy from the Pre-Socratics to Neo-Platonism, with particular emphasis on the philosophical systems of Plato and Aristotle. Topics vary.</td>
</tr>
<tr>
<td>MGT4720</td>
<td>4.72</td>
<td>MGT</td>
<td>High Performance Teams</td>
<td>Introduction to group theory, the practical elements of forming and leading high performing teams, self-assessments and other group-related skills, and practice engaging different group roles and activities.</td>
</tr>
<tr>
<td>ENG2040</td>
<td>2.04</td>
<td>ENG</td>
<td>Great Books: Literature</td>
<td>Introduction to interpreting literature, using works from various periods and cultures, viewed in their social and historical contexts and read for their enduring interest.</td>
</tr>
<tr>
<td>EE3210</td>
<td>3.12</td>
<td>EE</td>
<td>Linear Systems I</td>
<td>Continuous-time signals and systems, time domain analysis, Laplace transform, Fourier series, Fourier transform, Bode analysis.</td>
</tr>
<tr>
<td>REL3520</td>
<td>3.52</td>
<td>REL</td>
<td>Western Mystics</td>
<td>Mysticism and the history of its literary legacy within Judaism, Christianity and Islam.</td>
</tr>
<tr>
<td>ME6210</td>
<td>6.21</td>
<td>ME</td>
<td>Mechanical Vibrations</td>
<td>Modeling and analysis of single and multi-degree freedom systems under free and forced vibration and impact.</td>
</tr>
<tr>
<td>PSY9420</td>
<td>9.42</td>
<td>PSY</td>
<td>Brief Psychotherapy</td>
<td>Study and discussion of problem-focused, time-limited interventions. Study of concepts and techniques; use of programmatic and group methods.</td>
</tr>
<tr>
<td>PSI9180</td>
<td>9.18</td>
<td>PSI</td>
<td>Integrative Assessment</td>
<td>Provides a format for integrating various psychological tests into a coherent battery. In addition to addressing the evaluation of various psychological disorders, an approach is provided for constructing batteries for unique populations.</td>
</tr>
<tr>
<td>KNH1610</td>
<td>1.61</td>
<td>KNH</td>
<td>Strengthen &amp; Tone</td>
<td>Fundamental skills and knowledge of Strengthen &amp; Tone. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>BIO3120L</td>
<td>3</td>
<td>General Microbiology</td>
<td>Lecture</td>
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<tr>
<td>HST6400</td>
<td>6</td>
<td>Asian History</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>ED7100</td>
<td>7</td>
<td>Teaching in America Edu System</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>REL3790</td>
<td>3</td>
<td>Topics in Greco-Rom Rel</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>EE6130L</td>
<td>6</td>
<td>Control Systems Lab</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PLS3010</td>
<td>3</td>
<td>Mod Political Ideologies</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>ED4350</td>
<td>4</td>
<td>Multi-Age Intern Part I</td>
<td>Lecture</td>
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<tr>
<td>BME6440</td>
<td>3</td>
<td>Biomaterials</td>
<td>Lecture</td>
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<tr>
<td>SOC5620</td>
<td>5</td>
<td>Race and Ethnicity</td>
<td>Lecture</td>
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<tr>
<td>ASL1020</td>
<td>1</td>
<td>Beginning ASL II</td>
<td>Lecture</td>
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<tr>
<td>PLS4170</td>
<td>4</td>
<td>Moot Court</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PLS7900</td>
<td>5</td>
<td>Continuing Registration</td>
<td>Lecture</td>
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<tr>
<td>KNH1140</td>
<td>1</td>
<td>Dance: Ballroom</td>
<td>Lecture</td>
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<tr>
<td>SOC5610</td>
<td>5</td>
<td>Sociology of Gender</td>
<td>Lecture</td>
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<tr>
<td>PHIL6810</td>
<td>6</td>
<td>Independent Study</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>EC4460</td>
<td>4</td>
<td>Gender Econ Policy</td>
<td>Lecture</td>
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<tr>
<td>ED4070</td>
<td>4</td>
<td>Reading and Literacy II</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MUS6470</td>
<td>4</td>
<td>Baroque Music</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>HST6800</td>
<td>6</td>
<td>Comparative History</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MUA1420</td>
<td>4</td>
<td>Applied Music</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PLS4050</td>
<td>4</td>
<td>Political Polar in Am Politics</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>EES4330</td>
<td>4</td>
<td>Global Biogeocem Cycles</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PSY3230L</td>
<td>3</td>
<td>Cognition &amp; Learning Mth Lab</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Semester</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
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<tr>
<td>Spring 21</td>
<td>ES7160</td>
<td>7160</td>
<td>Complexity in Env System</td>
<td>Environmental Sciences</td>
</tr>
<tr>
<td>Spring 21</td>
<td>DMV999</td>
<td>999</td>
<td>For Administrative Use Only</td>
<td>DMV DMV Consortium</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BME7521</td>
<td>7521</td>
<td>Advanced Biotransport</td>
<td>Biomedical Engineering</td>
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<tr>
<td>Spring 21</td>
<td>CEG6870L</td>
<td>6870L</td>
<td>Intro Intel Cont Sys Lab</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CEG6324</td>
<td>6324</td>
<td>Dig Integ Ckt Design</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Spring 21</td>
<td>HST3120</td>
<td>3120</td>
<td>Studies Russian/Soviet</td>
<td>History</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ENG6950</td>
<td>6950</td>
<td>TEFL Workshop</td>
<td>English</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ATH4750</td>
<td>4750</td>
<td>Sem Archaeological Theory</td>
<td>Anthropology</td>
</tr>
<tr>
<td>Spring 21</td>
<td>STT4300</td>
<td>4300</td>
<td>Bistatistics</td>
<td>Statistics</td>
</tr>
<tr>
<td>Spring 21</td>
<td>HST7820</td>
<td>7820</td>
<td>Practica Archives Museum</td>
<td>History</td>
</tr>
<tr>
<td>Spring 21</td>
<td>DMV1010</td>
<td>1010</td>
<td>DMV Registration</td>
<td>DMV DMV Consortium</td>
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<tr>
<td>Spring 21</td>
<td>CNL7250</td>
<td>7250</td>
<td>Cnld Mental Hlth Prac/Ser</td>
<td>Counseling</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ISE1110L</td>
<td>1110L</td>
<td>Intro Eng Sci Apps for All Lab</td>
<td>Industrial &amp; Systems Engr</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SW4700</td>
<td>4700</td>
<td>Soc and Econ Justice</td>
<td>Social Work</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSY5210</td>
<td>5210</td>
<td>Cognition and Learning</td>
<td>Psychology</td>
</tr>
<tr>
<td>Spring 21</td>
<td>TH3210</td>
<td>3210</td>
<td>Scene Painting I</td>
<td>Theatre</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED2100</td>
<td>2100</td>
<td>Education in a Democracy</td>
<td>Education</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SOC4800</td>
<td>4800</td>
<td>Aging and HIV</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

This interdisciplinary course explores mathematical methods for quantitative analysis and modeling of complex nonlinear environmental systems. The course introduces the concepts and tools for analyzing and modeling: scaling in space and time, feedback, and self-organization in environmental systems including: ecology, hydrology, global climate change, and geodynamical systems. Two hours lecture and two hours lab are combined.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Credits</th>
<th>Title</th>
<th>Type</th>
<th>Delivery</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Spring 2021</td>
<td>LA4900</td>
<td>4900</td>
<td>Senior Proj Select Stds</td>
<td>LA</td>
<td>Liberal Arts</td>
<td>1</td>
<td>intensive studies or work in a selected topic.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3040</td>
<td>3040</td>
<td>Industrial and Org Psy</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>this class applies scientific psychological principles, procedures, and methods to human behavior in organizations.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT3120</td>
<td>3120</td>
<td>Human Structure Funk II</td>
<td>ANT</td>
<td>Anatomy</td>
<td>4</td>
<td>endocrine system, cardiovascular system, lymphatic system, respiratory system, and urinary system. Acid-base balance, fluid balance, reproductive system and digestive system. Laboratory exercises use human donors.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6850</td>
<td>6850</td>
<td>Sp Topics Creative Wrg</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>specialized courses in genres, modes, styles, practices, creative processes, and the craft of fiction, creative non-fiction, poetry, or playwriting.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG2171L</td>
<td>2171L</td>
<td>C++ Prog for Sci &amp; Egr Lab</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>0</td>
<td>required laboratory for CEG 2171. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS3700</td>
<td>3700</td>
<td>Applied Interventions</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>1</td>
<td>application of strategies and interventions learned with an appreciation of culture and family systems regarding growth, development, and characteristics of students with exceptional learning needs. Field experiences and seminars required.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5530</td>
<td>5530</td>
<td>Asian Religious Ethics</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>exploration of ethics and morality as construed in a variety of Asian religious traditions including Hinduism, Buddhism, Jainism, and Confucianism. Reading of primary sources ranging from analytic ethical debates to popular folktales in which moral and immoral behavior figure prominently. Exposure to a variety of cultural approaches to universal human problems and critical reading of primary sources.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECO5000</td>
<td>5000</td>
<td>Econ Study for Teachers</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>1</td>
<td>variable titled course for selected economic issues and topics and techniques for teaching them in the K-12 classroom. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB4010</td>
<td>4010</td>
<td>Dev Disabilities</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>3</td>
<td>study of the etiology, eligibility, and rehabilitation of individuals with developmental disabilities. Behavioral observations, evidenced based research study and site visits to rehabilitation facilities are components of course. Service Learning course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4510</td>
<td>4510</td>
<td>Electricity Magnetism II</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>fundamental laws of electricity and magnetism from viewpoint of fields. Electromagnetic waves; time-dependent potentials and fields; radiation; resonant cavities; waveguides and transmission lines.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECO5170</td>
<td>5170</td>
<td>Eco Applica Internet I</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>2</td>
<td>course teaches basic economic concepts/skills to K-12 teachers and how they may be applied to the classroom using resources available on the Internet. This course is an excellent foundation for teachers with little economic knowledge that desiring greater expertise. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7203</td>
<td>7203</td>
<td>ACNP Practicum</td>
<td>NUR</td>
<td>Nursing</td>
<td>6</td>
<td>the focus is on synthesis of theory and implementation of the role of the acute care nurse practitioner. Experiences emphasize clinical decision-making in an inter-professional environment with focus on the acute care practitioner as a principal provider of care for patients with acute or emergent health problems.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>OL4020</td>
<td>4020</td>
<td>Community-Based Learning</td>
<td>OL</td>
<td>Organizational Leadership</td>
<td>3</td>
<td>investigation of leadership issues within community-based organizations. Students volunteer their service to local organizations while demonstrating their learning through reflective exercises, written assignments, and final presentations.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6710</td>
<td>6710</td>
<td>International Law</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>examines the nature of international law; international courts and subjects; diplomacy; the use of force; law of war; and environmental law.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH7130</td>
<td>7130</td>
<td>Teach Adpt Phys Actv</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>3</td>
<td>provides an overview of disability sport and physical activity including rules and certification requirements of the various athletic opportunities for exceptional populations. Includes discussions of adapted devices, technology, and special facilities used for disability sports.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6550</td>
<td>6550</td>
<td>Politics of Iraq</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>traces recent political history of Iraq since its formation in 1920s. Examines reasons for recent war and implications for Iraq's political future</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8700</td>
<td>8700</td>
<td>Practicum I: Principal</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>provides experience in school administration. Candidates perform administrative tasks under the supervision of a licensed school administrator.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2110</td>
<td>2110</td>
<td>Food Processing Unit Op</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>a study of selected food processes and the underlying principles behind their operation.</td>
</tr>
<tr>
<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credit Hours</td>
<td>Description</td>
<td>Prerequisites</td>
<td>Type</td>
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<tr>
<td>Spring 2021</td>
<td>ME4850</td>
<td>Nano-scale Sci and Engr</td>
<td>ME</td>
<td>3</td>
<td>Introduction to Nano-scale science and engineering in terms of the nano-scale building blocks (emphasizing carbon based nano-species), the characterization techniques (emphasizing Raman Spectroscopy), and the nano-phenomena such as thermal, optical, electrical, chemical, and mechanical phenomena observed on the nano-scale. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 3750 Minimum Grade of D.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC4100</td>
<td>Political Anthropology</td>
<td>SOC</td>
<td>3</td>
<td>Cross-cultural focus on the anthropological study of political life. Presents evolutionary and historical approaches to political institutions, and classic anthropological analyses of political institutions. Investigates recent developments in the study of politics as a contemporary problem. Integrated Writing course.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6130</td>
<td>Reading Recovery I</td>
<td>ED</td>
<td>3</td>
<td>Teachers learn to apply Marie Clay’s theory of literacy processing while teaching Reading Recovery students. Key concepts include targeted instruction through assessment, the reciprocity of reading and writing, and teaching for accelerated learning.</td>
<td>GR LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6340</td>
<td>Clinical Sexuality Capstone</td>
<td>PSY</td>
<td>3</td>
<td>The ultimate end goal of this course is to enhance your personal sexual health by increasing your sexual literacy as well as your comfort and confidence as a sexual being.</td>
<td>GR LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4430</td>
<td>Studies in Gender/Sex</td>
<td>ENG</td>
<td>3</td>
<td>Intensive study of literature from the perspectives of gender theory. Intended to develop an understanding of gender and sexuality as important both to literature and to its critical appreciation. Integrated Writing course.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6210</td>
<td>Digital Communication</td>
<td>EE</td>
<td>3</td>
<td>This course provides an introduction to digital communications. Topics include: analog communication vs digital communication, source coding, pulse shaping, digital modulation/demodulation, signal detection and optimal receiver, simulation of digital communication system is an integral part of this course.</td>
<td>GR LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7410L</td>
<td>Power Electronics I Lab</td>
<td>EE</td>
<td>1</td>
<td>Silicon and silicon-carbide p-n-junction and Schottky power diodes, power MOSFETs, maximum current and breakdown voltage, power stages of PWM converters. Department Managed Prerequisite(s): Graduate level EE 5310 Minimum Grade of D.</td>
<td>GR LB Lab</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4240</td>
<td>Vehicle Engineering</td>
<td>ME</td>
<td>3</td>
<td>Develops students' abilities to derive and solve vehicle equations and introduces how dynamic analysis is used in vehicle design. Various performance criteria, control concepts, and HEVs will be studied. Department Managed Prerequisite(s): Undergraduate level ME 2210 Minimum Grade of D.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG4426</td>
<td>Legal Aspects Cyber Sec</td>
<td>CEG</td>
<td>3</td>
<td>Examines some of the most pressing threats to data and systems, the major legal and practical responses, and the policy issues they raise, with a particular focus on military divisions, corporations, not-for-profit organizations, and civilian government agencies.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH7770</td>
<td>Applied Analysis</td>
<td>MTH</td>
<td>4</td>
<td>Fixed point theorems and applications, Banach and Hilbert spaces and applications, compact operators, eigenvalues, eigenfunction expansions, Sturm-Liouville problems, inverse operators, variational methods, and basic approximate methods in analysis. Department Managed Prerequisite(s): Undergraduate level MTH 7310 Minimum Grade of D.</td>
<td>GR LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT3450</td>
<td>Altern Media Platforms</td>
<td>IT</td>
<td>3</td>
<td>In this project based course, students will use Adobe Photoshop, Adobe Animate, Autodesk Maya, Superflip, and augmented reality to create animated 3D promotional material on a printed lenticular platform and augmented reality on mobile devices.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6960</td>
<td>Behav Embry &amp; Terat Cap</td>
<td>PSY</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on behavioral embryology and teratology.</td>
<td>GR SE Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL7260</td>
<td>Marriage</td>
<td>CNL</td>
<td>1</td>
<td>Fundamental introduction to marriage and family counseling. Students learn to think across a wide variety of family structures and a diverse range of issues (i.e. gender, culture, and substance abuse).</td>
<td>GR LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>OLY4030</td>
<td>Undergrad OL TA</td>
<td>OL</td>
<td>3</td>
<td>Supervised experience in Organizational Leadership classroom instructional assistance. Experiences include preparing materials, communicating with students, providing feedback, and/or delivering class content as appropriate.</td>
<td>UG SE Seminar</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TFI2050</td>
<td>Business Finance</td>
<td>TFI</td>
<td>3</td>
<td>Basic concepts, principles, and analytical techniques of financial management. Emphasis on planning and managing assets, and financial structure decisions. Topics include asset management, capital budgeting, cost of capital, financial leverage, and the demands for funds in the business sector of the economy.</td>
<td>UG LE Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5700</td>
<td>5700</td>
<td>Topics in Biblical Liter</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Examination of selected aspects of Biblical literature from both literary and historical perspectives to explore the possible structures, functions, and meanings of this literature for its original community.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7810</td>
<td>7810</td>
<td>Litrecy Resrch: Pract III</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Conduct the literacy research project designed in ED 7800. Collect and analyze the data. Final written project includes: findings, discussion, and conclusion (including limitations and implications). This course involves supervision.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LE1040</td>
<td>1040</td>
<td>Crime Investigation</td>
<td>LE</td>
<td>Law Enforcement</td>
<td>3</td>
<td>Techniques used by police and police specialists to gather evidence at crime scenes and approaches used to interview witnesses, victims and crime suspects.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7300</td>
<td>7300</td>
<td>Advanced Fluid Dynamics</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Theory and application of conservation equations for fluid mechanics. Develops boundary layer equations for laminar and turbulent flows. Topics include incompressible, viscous, supersonic, and hypersonic flows.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D or Graduate level ME 5350 Minimum Grade of D&lt;b&gt;-</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1220A</td>
<td>1220A</td>
<td>Fencing: Competitive</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Fencing: Competitive. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6400L</td>
<td>6400L</td>
<td>Comp Networks &amp; Security Lab</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>0</td>
<td>Required laboratory for CEG 6400.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6970</td>
<td>6970</td>
<td>Cont Sem: MA/Weld Lang</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Seminar accompanying student teaching focusing on pedagogical content knowledge in World Languages, assessment of the American Council on the Teaching of Foreign Languages standards, completion of the professional portfolio and submission of the edTPA.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6840</td>
<td>6840</td>
<td>Intro Machine Learning</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>This course offers an introduction to the field of probabilistic machine learning. Examples are drawn from sensor signal exploitation, biology, text processing, computer vision, and robotics. Key techniques are demonstrated and implemented in MATLAB.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7800</td>
<td>7800</td>
<td>Adv Probs Archival Work</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Theories and concepts associated with appraisal and acquisition, arrangement and description, reference, and preservation of archival materials. Includes practical experience in processing and preserving an archival collection.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6980</td>
<td>6980</td>
<td>Cont Sem: Multi-age/Vis</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Seminar accompanying Multi-Age Visual Arts Internship focusing on pedagogical content knowledge in Visual Arts, assessment based on the Ohio Multi-Age Visual Arts Standards and the completion of the professional portfolio.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH2415</td>
<td>2415</td>
<td>Elem Math Concepts Teachers 1</td>
<td>MTH</td>
<td>Mathematics</td>
<td>4</td>
<td>Overview of mathematical topics from a perspective appropriate for early and middle childhood educators. Study of number systems and place value; concepts and algorithms for the four operations; representations for operations on whole numbers, fractions, rational numbers, and decimal numbers.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS6900</td>
<td>6900</td>
<td>Special Topics</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>1</td>
<td>Advanced study in selected topics in urban studies. Topics may include new developments in methodology or the various subfields of the discipline.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO4460</td>
<td>4460</td>
<td>Transport Principles</td>
<td>GEO</td>
<td>Geography</td>
<td>3</td>
<td>Principles related to developing and managing public and human service transportation systems. Role of public and human service transportation in society; history and geography of public transportation; and spatial, funding, organizational, cost benefit, labor, and customer service issues.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4530</td>
<td>4530</td>
<td>Clinical Chem Prac</td>
<td>MLB</td>
<td>Medical Laboratory Science</td>
<td>3</td>
<td>Practical application of clinical chemistry techniques at a clinical site.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SAA7540</td>
<td>7540</td>
<td>Resilience Ldshp&amp;Weld of Work</td>
<td>SAA</td>
<td>Student Affairs in Higher Ed</td>
<td>3</td>
<td>Focuses on organizational resilience including economy, finding meaning, giving/receiving feedback, managing difficult conversations, and compassionate communication. Understanding the science behind resilience and providing opportunities for practice, increases sustaining healthy engagement in the workplace.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR2020</td>
<td>2020</td>
<td>Teaching Fitness in PE</td>
<td>HPR</td>
<td>Health Pfy Educ &amp; Recreation</td>
<td>3</td>
<td>Develops fitness knowledge, skills and teaching strategies in future physical education teachers to enhance fitness and physical activity levels in Pre K-12 students. Students are required to demonstrate competency in fitness-related skills and a minimum level of health-related fitness.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL4710</td>
<td>4710</td>
<td>Philosophy of Science</td>
<td>PHL</td>
<td>Philosophy</td>
<td>3</td>
<td>Analysis of the techniques of reasoning used in both natural and social science. Exploration of the history of science and the rise of the scientific method, including an examination of important theories, discoveries, and disputes, as well as the difference between science and pseudo-science.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS9570</td>
<td>9570</td>
<td>Computed Tomography</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Principles of generating images from projections. Discussion of specific problems like beam hardening, scatter, metal artefacts, etc. Focus on quantitative imaging in medical applications.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Course Type</td>
<td>Division</td>
<td>Title</td>
<td>Notes</td>
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<tr>
<td>IT4310</td>
<td>4</td>
<td>History Graphic Design</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>Historical analysis of visual communication emphasizing the development of the profession of graphic design and the relationship of commerce and technology to the history of graphic design. Department Managed Prerequisite(s): Undergraduate level ENG 2100 Minimum Grade of D.</td>
<td></td>
</tr>
<tr>
<td>ED6570</td>
<td>6</td>
<td>AYA Int Pt II: Std T WL</td>
<td>ED</td>
<td>Education</td>
<td>8</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades p-12 in Multi-Age World Languages.</td>
<td></td>
</tr>
<tr>
<td>NUR3460</td>
<td>3</td>
<td>Nursing Care of Children</td>
<td>NUR</td>
<td>Nursing</td>
<td>1</td>
<td>Focuses on critical reasoning and care of children, adolescents, and families. Delivery of holistic, family-centered care that incorporates understanding of growth and development, culture, pathophysiological changes, and family transitions. (2 cr didactic; 2 cr total clinical/lab)</td>
<td></td>
</tr>
<tr>
<td>PTX8004</td>
<td>8</td>
<td>Med Chem Defense</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>Provide an understanding of chemical threat agent history, toxicology, and medical intervention. The course will also introduce requirements for research for working with highly toxic chemicals, animal models, and medical/environmental countermeasures.</td>
<td></td>
</tr>
<tr>
<td>ME6720</td>
<td>6</td>
<td>Engineering Polymers I</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Introduces polymers as engineering materials and covers fundamental concepts in polymer science and engineering. Includes polymerization processes, morphology and crystallinity, thermal transitions, viscoelasticity, rubber elasticity, aging, and contemporary issues in polymers. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D.</td>
<td></td>
</tr>
<tr>
<td>PSY1010L</td>
<td>1</td>
<td>Intro to Psychology Lab</td>
<td>PSY</td>
<td>Psychology</td>
<td>0</td>
<td>Required laboratory for PSY 1010. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>ART6060</td>
<td>6</td>
<td>Studies in Painting</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Provides opportunities to explore special problems and approaches to painting including cross-media and interdisciplinary studies. Titles vary.</td>
<td></td>
</tr>
<tr>
<td>SOC3320</td>
<td>3</td>
<td>Sociology of Work</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Investigation, analysis, and discussion of contemporary theories focusing on the relationship of the individual to work.</td>
<td></td>
</tr>
<tr>
<td>EE3810</td>
<td>3</td>
<td>Prof Skills for EE</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>2</td>
<td>Development of professional skills for electrical engineering: multidisciplinary teamwork, professional and ethical responsibilities, oral and written communication, lifelong learning, and understanding of contemporary issues and the impact of engineering solutions.</td>
<td></td>
</tr>
<tr>
<td>CHM1010</td>
<td>3</td>
<td>Intro to Chemistry</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3</td>
<td>Fundamentals of chemistry: composition and structure, properties and transformations of matter. For students who have not completed high school chemistry.</td>
<td></td>
</tr>
<tr>
<td>ED4540</td>
<td>4</td>
<td>AYA Math Methods</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Curriculum, methods, and materials in the teaching of mathematics for grades 7-12, including lesson planning, assessment, differentiation, technology, and content for algebra and geometry courses.</td>
<td></td>
</tr>
<tr>
<td>OL3020</td>
<td>3</td>
<td>Leadership Foundations</td>
<td>OL</td>
<td>Organizational Leadership</td>
<td>3</td>
<td>Introduction to leadership practice and skill development, with an emphasis in understanding theories and styles for use in organizational settings.</td>
<td></td>
</tr>
<tr>
<td>PPH7210</td>
<td>7</td>
<td>Maternal and Child Hlth</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>Concentrating on women of childbearing age, pregnant women, infants, and children from birth through 21 years, this course provides an introduction to the health needs of women and children and to the delivery of services/interventions designed to meet these needs. Critical areas in maternal, infant and child health are examined from several perspectives. Students learn the biological, social, political, and economic context within which maternal and child health problems arise.</td>
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</tr>
<tr>
<td>RHB3670</td>
<td>3</td>
<td>Creation of EBP</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>3</td>
<td>Basic concepts in research as applied to the rehabilitation field, including theory, design, variables, measurement, hypothesis testing, and validity.</td>
<td></td>
</tr>
<tr>
<td>EES4420</td>
<td>4</td>
<td>Paleozoic Vertebr/Plants</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>4</td>
<td>The rise and evolution of Paleozoic vertebrate and plant groups emphasizing the evolution of jawed fishes, early tetrapods, and the terrestrialization of Earth. Phylogeometric and molecular analysis.</td>
<td></td>
</tr>
<tr>
<td>TH1510</td>
<td>1</td>
<td>Intro to Perf Process</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Introduction to the working methods of the actor and director. Includes exploration of process through acting and directing exercises as well as discussion of the director's collaboration with the production's design team.</td>
<td></td>
</tr>
<tr>
<td>ENG4720</td>
<td>3</td>
<td>History of Engl Language</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Study of the ancestry and early growth of the English language, the history of English sounds and inflections, the development of the English vocabulary, and variations in pronunciation and usage in modern British and American English.</td>
<td></td>
</tr>
<tr>
<td>IT2180</td>
<td>2</td>
<td>Found of Electronic Prod</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>Streamlined processes for delivering electronic content. Topics include Macs vs PCs, color depth, advantages and disadvantages of types of printers, magnetic and optical storage systems.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>ME4590</td>
<td>4.51</td>
<td>Adv. Clean Coal Tech.</td>
<td>ME Mechanical and Materials Engr</td>
<td></td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS4140</td>
<td>5.41</td>
<td>Fund Crim Investigation</td>
<td>PLS Political Science</td>
<td></td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS4819</td>
<td>4.81</td>
<td>PLS Internship</td>
<td>PLS Political Science</td>
<td></td>
<td>UC LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED7870</td>
<td>7.80</td>
<td>C&amp;I DSGN FOR PBL</td>
<td>ED Education</td>
<td></td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM7100</td>
<td>7.10</td>
<td>Seminar in Humanities</td>
<td>HUM Humanities</td>
<td></td>
<td>GR SE Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME6655L</td>
<td>6.550L</td>
<td>Bioinstrumentation on Lab</td>
<td>BME Biomedical Engineering</td>
<td></td>
<td>GR LB Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IHE6510</td>
<td>6.510</td>
<td>Comp Appl in IHE</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td></td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>IT2350</td>
<td>2.350</td>
<td>Branding Experience</td>
<td>IT Information Technology</td>
<td></td>
<td>UG LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>MBA5800</td>
<td>5.800</td>
<td>Survey Qn Bus Analysis</td>
<td>MBA MBA</td>
<td></td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW4800</td>
<td>4.800</td>
<td>Gerontology Practicum</td>
<td>SW Social Work</td>
<td></td>
<td>UC PR Practicum</td>
<td></td>
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</tr>
<tr>
<td>IT3400</td>
<td>3.400</td>
<td>3D Digital Modeling</td>
<td>IT Information Technology</td>
<td></td>
<td>UC LL Lecture/Lab Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STT7400</td>
<td>7.400</td>
<td>Categoric Data Analysis</td>
<td>STT Statistics</td>
<td></td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIS3450</td>
<td>3.450</td>
<td>Web Apps Development</td>
<td>MIS Management Information Systems</td>
<td></td>
<td>UG LL Lecture/Lab Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY4410</td>
<td>4.410</td>
<td>Industrial Psy Cap</td>
<td>PSY Psychology</td>
<td></td>
<td>UG SE Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUA1120</td>
<td>1.120</td>
<td>Applied Music</td>
<td>MUA Music: Applied Music</td>
<td></td>
<td>UG IS Independent Study</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Writing and oral communication intensive seminar integrating knowledge on applied psychology. Topic will vary by title.

Department Managed Prerequisite(s): Undergraduate level ART 2080 Minimum Grade of D/GR/UG

Grammar review, reading, and discussion of selected texts with practice in speaking and writing the language. Department Managed Prerequisite(s): Undergraduate level CHI 1020 Minimum Grade of C or AP Chinese Language & Culture 3/UG/UG

This is an advanced DNP course focusing on the development and evaluation of proposed solutions for systems level programs and respective outcomes. Identify project, project outcomes, and evaluation.

This is an advanced DNP course focusing on the development and evaluation of proposed solutions for systems level programs and respective outcomes. Identify project, project outcomes, and evaluation.

Analysis of the development of the family and its relationship to society and the individual. Topics include courtship, marriage, parenthood, adulthood, and aging.

A cross cultural approach examining select criminal justice systems in Europe, Asia, the Middle East, Latin America and Africa as compared to the U.S., involving such transnational crimes as terrorism, hijacking, drug smuggling and organized crime networks.

Overview of addiction and substance related issues for children and adolescents in the K-12 setting. Emphasis on the school counselor’s role in prevention, screening and responsive services when working with students and/or families impacted by addiction and substance use disorders.

Undergraduate level ART 2080 Minimum Grade of D/UG

System level study in ECE in ACC/UG.


Undergraduate level ME 1020 Minimum Grade of D and (Undergraduate level ME 3120 Minimum Grade of D or Undergraduate level ME 5120 Minimum Grade of D)/UG/UG.

Private singing lessons for Musical Theatre.

Undergraduate level ME 1020 Minimum Grade of D or Undergraduate level ME 5120 Minimum Grade of D/UG/UG.

Grade of C or AP Chinese Language & Culture 3

Complete list of courses available.

Undergraduate level ME 1020 Minimum Grade of D and (Undergraduate level ME 3120 Minimum Grade of D or Undergraduate level ME 5120 Minimum Grade of D)/UG/UG.

Private singing lessons for Musical Theatre.

Private singing lessons for Musical Theatre.

Spring 2021 PSY6100 6100 Applied Psych Cap PSY Psychology 3 Writing and oral communication intensive seminar integrating knowledge on applied psychology. Topic will vary by title.

Spring 2021 ART3780 3780 Modeling/Casting Process ART Art 3 Department Managed Prerequisite(s): Undergraduate level ART 2080 Minimum Grade of D/GR/UG

Spring 2021 CHI2010 2010 Intermediate Chinese I CHI Chinese 3 Grammar review, reading, and discussion of selected texts with practice in speaking and writing the language. Department Managed Prerequisite(s): Undergraduate level CHI 1020 Minimum Grade of C or AP Chinese Language & Culture 3/UG/UG

Spring 2021 TH1570 1570 Singing Mus Theatre I TH Theatre 2 Private singing lessons for Musical Theatre. UG ST Studio

Spring 2021 MUS1520 1520 Musicianship II MUS Music 1 The study of sight singing and techniques for hearing and notating melody and harmony. UG LE Lecture

Spring 2021 ACC7800 7800 Special Topics in ACC ACC Accountancy 3 Titles vary. Seminar in accounting topic of current interest. GR LE Lecture

Spring 2021 ECE4500 4500 Independent Study in ECE ECE Education - Early Childhood 0.5 Independent study in a selected area of Early Childhood Education UG IS Independent Study

Spring 2021 GER5810 5810 Applied Elem Ger Instr. GER German 1 Assist GER 1010 or GER 1020 course instructors in conducting classes. Taught in German. Instructor Permission required. GR LE Lecture

Spring 2021 NUR8885 8885 Sys App Prog Impl & Eval NUR Nursing 3 This is an advanced DNP course focusing on the development and evaluation of proposed solutions for systems level programs and respective outcomes. Identify project, project outcomes, and evaluation. GR LE Lecture

Spring 2021 CNL7651 7651 Addiction K-12 Setting CNL Counseling 3 Overview of addiction and substance related issues for children and adolescents in the K-12 setting. Emphasis on the school counselor’s role in prevention, screening and responsive services when working with students and/or families impacted by addiction and substance use disorders. GR LE Lecture

Spring 2021 BIO2200L 2200L Microbiology- Human Env Lab BIO Biology 0 Required laboratory for BIO 2200. UG LB Lab

Spring 2021 NUR3300 3300 Found of Research & EBP NUR Nursing 3 Introduction to the research process and evidence-based practice. Emphasizes the critical appraisal of current evidence that guides professional nursing practice. Integrated Writing course. UG LE Lecture

Spring 2021 SOC5100 5100 Marriage and Family SOC Sociology 3 Sociological analysis of the development of the family and its relationship to society and the individual. Topics include courtship, marriage, parenthood, adulthood, and aging. GR LE Lecture

Spring 2021 SOC5710 5710 Comparative CJ SOC Sociology 3 A cross cultural approach examining select criminal justice systems in Europe, Asia, the Middle East, Latin America and Africa as compared to the U.S., involving such transnational crimes as terrorism, hijacking, drug smuggling and organized crime networks. GR LE Lecture

Spring 2021 ME6170 6170 Mechanics of Composites ME Mechanical and Materials Engr 3 The main objective of this course is to introduce composites as an engineering material and emphasize the basic concepts of their nature and mechanical properties. Micromechanics and macromechanics and lamination theory of composites will be emphasized. Department Managed Prerequisite(s): Undergraduate level ME 1020 Minimum Grade of D and (Undergraduate level ME 3120 Minimum Grade of D or Undergraduate level ME 5120 Minimum Grade of D)/UG/UG.

Spring 2021 EDS4900 4900 Student Teach Incl Set EDS Education - Special Education 8 Student teaching in a middle childhood school full-time for supervised field experience in inclusive setting with focus on professional/ethical practice, co-planning, local/national resources/networks, and advocacy. Cohort meetings required. UG IN Internship

Spring 2021 BMB4000 4000 BMB Seminar BMB Biochem & Molecular Biology 1 Students will attend, evaluate and summarize selected lectures given by experienced researchers. UG SE Seminar

Spring 2021 PLS3250 3250 African Amer Politics PLS Political Science 3 Explores what makes African American politics distinctive from American politics and the prerequisites for effective political and economic leadership in the black community. Major theme is black power. Integrated Writing course. UG LE Lecture

Spring 2021 URS6290 6290 Issues in Urb. Mgt. URS Urban Affairs 3 Explores issues and topics related to the administration of community development agencies and local governments in metropolitan areas. GR LE Lecture
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
<th>Department</th>
<th>Credits</th>
<th>Type</th>
<th>Duration</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Spring 2021</td>
<td>EC7260</td>
<td>7260</td>
<td>Contemp Political Econ</td>
<td>ECE</td>
<td>Economics</td>
<td>3</td>
<td></td>
<td></td>
<td>A political, social and economic analysis that questions, critiques, and provides alternative perspectives to orthodox economic theory. Studies groups, their systematic interrelations, and their impact on political, economic and social structures, practices, and outcomes.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN4150</td>
<td>4150</td>
<td>Real Estate Fin &amp; App</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td></td>
<td></td>
<td>In-depth study of real estate finance and the theory and practice of appraising real estate. Successful completion of this course meets part of the licensing requirements for real estate sales people in Ohio. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUA3990</td>
<td>3990</td>
<td>Junior Recital</td>
<td>MUA</td>
<td>Music: Applied</td>
<td>1</td>
<td></td>
<td></td>
<td>A solo concert performance on the major instrument during the junior year.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE3900</td>
<td>3900</td>
<td>Teaching Eng Lang Lmrs</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>2</td>
<td></td>
<td></td>
<td>Second language acquisition; planning and implementing culturally responsive lessons and classroom environments.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW4820</td>
<td>4820</td>
<td>Social Work Practice III</td>
<td>SW</td>
<td>Social Work</td>
<td>3</td>
<td></td>
<td></td>
<td>Develops a framework for understanding mezzo-to-macro inclusive practice interventions in groups within organizations throughout communities of varying types.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH7500</td>
<td>7500</td>
<td>Scientific Foundams-Cond</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>3</td>
<td></td>
<td></td>
<td>A study of scientific foundations for conditioning. Topics will include: exercise training techniques, heart rate, blood pressure, ventilation, strength, flexibility, and body composition. Laboratory methods will also be a part of this course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CSD3210</td>
<td>3210</td>
<td>Intro Health Care Issues</td>
<td>CSD</td>
<td>Community Services Development</td>
<td>3</td>
<td></td>
<td></td>
<td>Broad functions, operations and tools of health care administration; topics such as managing in health services environments, managerial tools and techniques and managing relationships.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6430</td>
<td>6430</td>
<td>AYA Intern Pt I: Mth ISS</td>
<td>ED</td>
<td>Education</td>
<td>1</td>
<td></td>
<td></td>
<td>Candidates, mentored by a social studies educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a 7-12th grade setting applying pedagogical content knowledge from social studies content and methods courses.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT2360</td>
<td>2360</td>
<td>Found of Package Design</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td></td>
<td></td>
<td>Fundamental concepts and applications of package design. History of field and useful package patterns. Hands-on experience in formulating package design.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5600</td>
<td>5600</td>
<td>Topics in Am Religion</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td></td>
<td></td>
<td>Examination of selected topics related to the history and practice of religion in America.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT6460</td>
<td>6460</td>
<td>Stat Methods Engineers</td>
<td>STT</td>
<td>Statistics</td>
<td>4</td>
<td></td>
<td></td>
<td>Classical statistical techniques for analysis and interpretation of research data, with extensive use of statistical software. Includes review of basic statistics. Simple, multiple, and polynomial regression. Analysis of variance, techniques for interpretation of research data, with extensive use of statistical software. Includes factorial experiments, fixed and random effects, crossed and nested factors, and repeated measures.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT5000</td>
<td>5000</td>
<td>Homors/Ind Study Market</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
<td></td>
<td></td>
<td>The course will consist of research or some other form of marketing project. The course is offered with the prior-approval of the department chair and the supervising marketing faculty member.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM4370L</td>
<td>4370L</td>
<td>Electroanalytical Chem Lab</td>
<td>CHM</td>
<td>Chemistry</td>
<td>0</td>
<td></td>
<td></td>
<td>Required laboratory for CHM 4370.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6281</td>
<td>6281</td>
<td>Prof Seminar: ECIS</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>0.5</td>
<td></td>
<td></td>
<td>Seminar focus will prepare candidates for state licensure requirements. Topics include: planning for instruction and assessment, instruction and engaging learners, assessing learning, and creating a portfolio.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT2800</td>
<td>2800</td>
<td>Educational Technology</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td></td>
<td></td>
<td>Use of computer-based technology in K-12 instruction. Focus is on selecting coursework and integrating it into lessons.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4610</td>
<td>4610</td>
<td>Near-Surface Geophysics</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td></td>
<td></td>
<td>Electrical and geophysical methods most used for near-surface studies, including ground penetrating radar, resistivity, and electromagnetics. Focuses on data acquisition methods, data processing and analysis, as well as report preparation.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR3350</td>
<td>3350</td>
<td>Tech Comm for EGR &amp; CS</td>
<td>EGR</td>
<td>Engineering</td>
<td>3</td>
<td></td>
<td></td>
<td>A modular approach to oral and written communication of complex technical information to an expert audience. Includes describing technical mechanisms and processes; designing and using tables, graphs, charts, and figures; producing technical proposals, progress reports, feasibility reports, and formal reports; and doing technical briefings. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM8550</td>
<td>8550</td>
<td>Select Topic Phys Chem</td>
<td>CHM</td>
<td>Chemistry</td>
<td>1</td>
<td>Selected topics in the field of physical chemistry such as molecular spectroscopy, advanced molecular structure, magnetic resonance, X-rays, crystal structure, statistical mechanics, and precision physical-chemical measurements.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HED2330</td>
<td>2330</td>
<td>Human Sexuality for Educ</td>
<td>HED</td>
<td>Health Education</td>
<td>3</td>
<td>Develops a depth of sexuality knowledge and related teaching competencies of K-12 teachers. Emphasis is placed on the biological, psychological, and sociological aspects of adolescent and young adult sexuality and application of the National Health Education Standards.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISM8100</td>
<td>8100</td>
<td>Graduate Seminar</td>
<td>ISM</td>
<td>Interdis. Appl. Sci. and Math</td>
<td>1</td>
<td>Convention of student body and faculty from the ISM program to learn, discuss, and critique current and evolving research in fields relevant to the ISM program mission as presented by an active and reputable scientific investigator. The course will be centered around guest lecturer and student presentations. Students will learn from world-class researchers about solutions to contemporary scientific problems through the application of fundamental principles.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2010</td>
<td>2010</td>
<td>History of Modern Psych</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>The history of psychology as an academic discipline. History of &quot;the mind,&quot; historical events that have shaped the field, recognition of psychology as a science, and life histories of selected psychologists.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>UVC1040</td>
<td>1040</td>
<td>Critical Reading</td>
<td>UVC</td>
<td>University College</td>
<td>2</td>
<td>Critical analysis of content area readings. Recognizing organizational patterns, point of view, propaganda and persuasive writing; analyzing arguments; distinguishing fact from opinion; making inferences; understanding logical reasoning; interpreting graphic illustrations; drawing conclusions, inferences; understanding logical reasoning; interpreting graphic illustrations; drawing conclusions.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB4900</td>
<td>4900</td>
<td>Rehab Internship</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>1</td>
<td>Placement in a community agency that addresses disabilities will provide the student with the integration of skills learned in program. Minimum of 400 hours at an approved site.</td>
<td>UG</td>
<td>IN</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6360</td>
<td>6360</td>
<td>Digital Signal Proc</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Introduces principles and applications of digital signal processing (DSP) from the design and implementation perspective. Introduction to advanced digital signal processing design concepts. Focus on time and frequency domain algorithms. Methods include multirate signal processing, Filter banks, time-frequency analysis, and wavelets.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6910</td>
<td>6910</td>
<td>Independent Research</td>
<td>PLS</td>
<td>Political Science</td>
<td>1</td>
<td>Supervised individual research on a selected topic arranged between the student and faculty member directing the study.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT6800</td>
<td>6800</td>
<td>Integrate Teachlearning</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>1</td>
<td>Types of educational software and applications, the cost of technology, software evaluation, curriculum development, trends and affordances, global educational views and lesson plan integration of technology in learning. Topics vary.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6990</td>
<td>6990</td>
<td>Prof &amp; Ethics in Sp Ed</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Exploration of the Special Education Professional Practice Standards and ethical responsibilities of intervention specialists in relation to individuals with exceptionalities and their families as well as employment within the profession. &lt;b&gt;Department Managed Prerequisite(s):&lt;/b&gt; Graduate level EDS 6610 Minimum Grade of D and (Graduate level EDS 6420 Minimum Grade of D or Graduate level EDS 6240 Minimum Grade of D) and Graduate level EDS 6690 Minimum Grade of D</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4900</td>
<td>4900</td>
<td>Behavioral Neuro Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge within behavioral neuroscience. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG7900</td>
<td>7900</td>
<td>Selected Topics in CEG</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>1</td>
<td>Selected topics in computer engineering.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT7010</td>
<td>7010</td>
<td>Selected Topics in ANT</td>
<td>ANT</td>
<td>Anatomy</td>
<td>1</td>
<td>A selected area of anatomy is discussed in greater detail than in basic anatomy courses. Some topics may include laboratory.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6700</td>
<td>6700</td>
<td>Adv Topics Percept Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on perception. Topic will vary by title. Integrated Writing course.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6410</td>
<td>6410</td>
<td>Mobile Computing</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3</td>
<td>Study networking protocol and system design in mobile computing. Focus on concepts, architecture, design, and performance evaluation of mobile computing principle, protocols and applications, including: wireless TCP, Mobile IP, 802.11 agent techniques, etc. &lt;b&gt;Department Managed Prerequisite(s):&lt;/b&gt; Undergraduate level CEG 4400 Minimum Grade of D or Graduate level CEG 6400 Minimum Grade of D</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4500</td>
<td>4500</td>
<td>Carbonate Sediment/Petro</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>4</td>
<td>Origin, composition, and diagenesis of ancient and modern carbonate rocks. Macroscopic and microscopic identification of rock constituents. Survey of depositional models for modern carbonate environments, emphasizing Floridian and Bahamian carbonates facies.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HED3310</td>
<td>3310</td>
<td>Hlth &amp; Phys Educ for ECE</td>
<td>HED</td>
<td>Health Education</td>
<td>3</td>
<td>Curriculum teaching methods and materials, for pre-K to 5th grades, promoting a positive lifestyle. Comprehensive school health program, activity for optimal growth and controversial issues will be covered.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>DMV2020</td>
<td>2020</td>
<td>DMV Registration</td>
<td>DMV</td>
<td>Consortium</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Description</td>
<td>Prerequisites</td>
<td>Component</td>
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<tr>
<td>Spring 21</td>
<td>EE5450 5450</td>
<td>Intro Electromagnetic s</td>
<td>EE Electrical Engineering</td>
<td>Electrodynamics and magnetics; induced electro-motive force; Maxwell equations and their physical interpretation; Transmission lines; Radiation antennas</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MUS4650 4650</td>
<td>Computer Applications in Music</td>
<td>MUS Music</td>
<td>Study of computer technology and music software applications. Emphasis is placed upon using MIDI for electronic score notation, sequencing, and basic courseware design.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>ATH3100 3100</td>
<td>Anthro of Sex &amp; Gender</td>
<td>ATH Anthropology</td>
<td>An introduction to anthropological perspectives of sex and gender, including attributes associated with &quot;maleness&quot; or &quot;femaleness&quot; and norms and ideals regarding appropriate roles, behaviors and sexualities. The course presents cross-cultural models enabling us to confront how we come to consider and express ourselves as &quot;men,&quot; &quot;women,&quot; or something else, the social forces constraining us to act as gendered persons, and consequences for not conforming to those norms.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>PHY7100 7100</td>
<td>Quantum Mechanics I</td>
<td>PHY Physics</td>
<td>Principles of non-relativistic quantum mechanics, Schrödinger's equation and matrix mechanics. Facility with applications to atomic, molecular, nuclear, solid state, spin, and biological systems.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MUE6490 6490</td>
<td>Chamber Players</td>
<td>MUE Music: Ensembles</td>
<td>Exploration and performance of compositions for small wind ensemble (usually 8 to 16 players). Typical repertoire may include works by Gabrieli, Mozart, Beethoven, Schubert, Dvorak, Strauss, or others. The ensemble functions according to a player pool concept, utilizing instrumental forces as needed for various works. Audition and instructor permission required.</td>
<td>GR LL Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>PSI9120 9120</td>
<td>Neuropsych Assessment</td>
<td>PSI Professional Psychology</td>
<td>Introduction to the field of clinical neuropsychological assessment. Students learn to select, administer, score, and interpret neuropsychological tests in different clinical situations.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MTH8500 8500</td>
<td>Topics in Algebra</td>
<td>MTH Mathematics</td>
<td>Selected advanced topic or topics in algebra.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>Spring 21</td>
<td>MLB4010 4010</td>
<td>Topics in Med Lab Sci</td>
<td>MLB Medical Laboratory Science</td>
<td>Advanced topics in medical laboratory science of current interest. Topics vary.</td>
<td>UG PR Practicum</td>
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<tr>
<td>Spring 21</td>
<td>REL3100 3100</td>
<td>Topics in Judaism</td>
<td>REL Religion</td>
<td>Topics vary.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>PSY6040 6040</td>
<td>Independent Reading</td>
<td>PSY Psychology</td>
<td>Specific topics selected by students and instructor. Graded pass/unsatisfactory.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>Spring 21</td>
<td>ENG3820 3820</td>
<td>Intro to Poetry Writing</td>
<td>ENG English</td>
<td>Fundamentals of poetry writing; practice in traditional and contemporary concepts of poetic form; reading and discussion of a wide spectrum of traditional and modern poetry; and group discussions of student's poems.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ASM7073 7073</td>
<td>Health Services Admin</td>
<td>ASM Aerospace Medicine</td>
<td>This course provides an overview of the US health care system including public and private institutions and agencies, federal and state regulations, and methods of financing. Topics of focused study include the major contemporary forces affecting the health care delivery system.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>HST6830 6830</td>
<td>Topics in Gender History</td>
<td>HST History</td>
<td>Intensive analysis of subjects in gender history. Topics may include masculinity, femininity, sexuality, family and women's history. Focus may be on one nation, region or comparative perspective. Topics vary.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MUS2810 2810</td>
<td>Jazz Improvisation</td>
<td>MUS Music</td>
<td>Basic fundamental scales and principles associated with the jazz tradition. Includes the study and performance of the blues, minor pentatonic, minor seventh, and major scales.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>CS7060 7060</td>
<td>Numerical Analysis I</td>
<td>CS Computer Science</td>
<td>Solutions of systems of linear and nonlinear equations, numerical solution of matrix eigenvalue problems, interpolation and numerical integration, numerical solution of initial and boundary value problems for differential equations.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>SOC5600 5600</td>
<td>Social Inequality</td>
<td>SOC Sociology</td>
<td>Structures, theories and consequences of social inequality. This course explores the patterns of inequality, as well as early and contemporary theories of stratification.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>FIN3260 3260</td>
<td>Risk and Insurance</td>
<td>FIN Finance</td>
<td>Introduction to principles and practices of personal risk management and insurance. Topics include property and liability insurance, life insurance, disability insurance, health insurance, and social security.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>EC7120 7120</td>
<td>Economic Forecasting</td>
<td>EC Economics</td>
<td>Techniques and theories used in forecasting. Practical methods and problems are stressed.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CS4700</td>
<td>4700</td>
<td>Database Management Systems</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Logical and physical aspects of database management systems are surveyed. Data models including entity-relationship (ER) and relational models are presented. Physical implementation (data organization and indexing) methods are discussed. Query languages including SQL, relational algebra, relational calculus, and QBE are studied. Database schema design methods are presented.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY7200</td>
<td>7200</td>
<td>Many-Body Physics</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>Consideration of many body theory in Physics including phase space evolution, Liouvilles theorem, ensembles, the Boltzman equation, the H theorem, and approach to equilibrium, fluctuation phenomena. Non-equilibrium problems</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS7050</td>
<td>7050</td>
<td>Spec Educ Research &amp; Analysis</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Understand how to conduct background research, utilize APA writing style, professional standards and quantitative and qualitative research methods and analysis.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX9220</td>
<td>9220</td>
<td>Scientific Writing 2</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>Students will independently write a 10-15 page scientific review on a current topic in Pharmacology &amp; Toxicology with at least 25 references.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW4870</td>
<td>4870</td>
<td>SW Field Seminar I</td>
<td>SW</td>
<td>Social Work</td>
<td>3</td>
<td>Faculty-field liaison utilizes individual and group feedback to assist students in applying generalist social work practice knowledge while planning, implementing, and processing activities at their practicum sites. Integrated Writing course.</td>
<td>SE</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4700</td>
<td>4700</td>
<td>Struc&amp;Prop of Mat. II</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>This course covers the fundamental phenomena that control the thermal, optical, electrical and magnetic properties in solid-state materials.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7530</td>
<td>7530</td>
<td>Exergy Based Analysis &amp; Design</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>The course seeks to develop in students the ability to integrate rate mechanisms (i.e., heat transfer and fluid dynamics) into thermodynamic system modeling and analyses and provide design opportunities through open-ended problems with explicit considerations of system-level impacts, engineering tradeoffs, and system optimization. Analysis, modeling and design of engineering systems involving applications of thermodynamics, economics, heat transfer, and fluid flow. Exergy and thermodynamic analysis and optimization. The use of modern computational tools to model thermal performance characteristics of components and systems. Examples may be drawn from power plant processes, energy conversion, aircraft component and systems as well as other areas of current interest. Integrated approach for systems evaluation of performance of some selected typical energy conversion/utilization systems. Course project.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0250</td>
<td>0250</td>
<td>List &amp; Speak - Level 2</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Listening, speaking and pronunciation for low-intermediate/intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS4500</td>
<td>4500</td>
<td>Bus Process Enterprise</td>
<td>MIS</td>
<td>Management Information Systems</td>
<td>3</td>
<td>Principles of business processes and enterprise information systems. Students identify, model, and reengineer business processes within and across organizations and integrate disparate information resources and business processes with an integrated enterprise system. Integrated Writing course.</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES1230</td>
<td>1230</td>
<td>Foundations of USAF II</td>
<td>AES</td>
<td>Aerospace Studies</td>
<td>1</td>
<td>Basic characteristics, missions, and organization of the Air Force. Mandatory Leadership Lab and two physical training sessions per week.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ARA6310</td>
<td>6310</td>
<td>Classical Arabic Texts</td>
<td>ARA</td>
<td>Arabic</td>
<td>3</td>
<td>A text-based course introducing students to the history and development of the earliest Arabic prose writings (7th-11th century).</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MP3320</td>
<td>3320</td>
<td>Film Authorship</td>
<td>MP</td>
<td>Motion Picture</td>
<td>3</td>
<td>Intensive study of the work of one or more film directors or other creative personnel. Topics vary.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3320</td>
<td>3320</td>
<td>American Texts: to 21st C</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Representative American writings from the late nineteenth century through the 21st century.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0240</td>
<td>0240</td>
<td>Integrated Skills Level 2</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Reading, vocabulary, listening, cross-cultural discussions for low-intermediate/intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IDL7240</td>
<td>7240</td>
<td>Trend Instruction Design&amp;Tech</td>
<td>IDL</td>
<td>Instructional Design &amp; Learning</td>
<td>3</td>
<td>Students will explore literature reviews in the field of instructional technology and instructional design.</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS3020</td>
<td>3020</td>
<td>Intro to Comparative Pol</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Examination of differences among political systems, parliamentary and presidential, democratic and authoritarian, as well as regional differences in political economic development. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL5510</td>
<td>5510</td>
<td>Scientific Revolutions</td>
<td>PHL</td>
<td>Philosophy</td>
<td>3</td>
<td>A look at dramatic paradigm shifts in the history of science including Newton, Einstein, Darwin, quantum theory and emerging ideas today.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>I ST4450</td>
<td>4450</td>
<td>Middle Eastern History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines the Middle East from the 7th century to the present. Topics vary. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ME7100</td>
<td>7100</td>
<td>Adv Mechanics of Solids</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Introduction to solid mechanics at the graduate level. Topics include theory of elasticity, indicial notation and coordinate transformations, exact solutions to plane elasticity problems in Cartesian and polar coordinates, axisymmetric problems, torsion of noncircular sections and energy methods.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level ME 3120 Minimum Grade of D or Graduate level ME 5120 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>AN T6030</td>
<td>6030</td>
<td>Biomedical Review Article</td>
<td>AN T</td>
<td>Anatomy</td>
<td>2</td>
<td>Graduate students will select a biomedical topic, critically analyze the scientific literature associated with it, and write a scientific review article on that topic.</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>Spring 2021</td>
<td>CLS5700</td>
<td>5700</td>
<td>Studies: Anc/Lat E w/Gov/Pol</td>
<td>CLS</td>
<td>Classics</td>
<td>3</td>
<td>Political problems of the ancient world; law and legal systems; and government and administration.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ME6150</td>
<td>6150</td>
<td>Mechanical Design II</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Analysis and design of mechanical elements including screws, welds, springs, bearings, gears, clutches, brakes, flywheels, pulleys and shafts. Students conduct a group design project.&lt;b&gt; Department Managed Prerequisite(s): Graduate level ME 6140 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUE2450</td>
<td>2450</td>
<td>Collegium Musicum</td>
<td>MUE</td>
<td>Music: Ensembles</td>
<td>1</td>
<td>Collegium Musicum is the generic term for an instrumental and vocal ensemble devoted to the study and performance of early music written before 1750. One period (Medieval, Renaissance, Baroque) will be emphasized each term.</td>
<td>UG</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>NUR6901</td>
<td>6901</td>
<td>School Nursing</td>
<td>NUR</td>
<td>Nursing</td>
<td>2</td>
<td>Roles and responsibilities of school nurses. Care of children in schools. Art, principles and strategies of promoting health in schools. Emphasis on preparation to assume role of school nurse.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ME6820</td>
<td>6820</td>
<td>Corrosion</td>
<td>ME</td>
<td>Mechanical and  Materials Engr</td>
<td>3</td>
<td>Survey of the principles of corrosion processes with application to metallic and nonmetallic materials. Principles of electrochemistry are included.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and (Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 3750 Minimum Grade of D)&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>BIO6060</td>
<td>6060</td>
<td>Evolutionary Biology</td>
<td>BIO</td>
<td>Biology</td>
<td>3</td>
<td>Upper-level course in evolutionary biology for graduate students that have already achieved a basic background in evolution. Objectives of the course are to critically examine modern evolutionary research, with focus on recent theoretical and empirical developments. Topics include: speciation and species definitions, phylogeny, phylogenetic biology, molecular evolution, adaptation and natural selection, and sexual selection.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>MTH6520</td>
<td>6520</td>
<td>Modern Algebra II</td>
<td>MTH</td>
<td>Mathematics</td>
<td>3</td>
<td>Examples and elementary properties of abstract algebraic structures: these include groups, rings, integral domains, and fields.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level MTH 4510 Minimum Grade of D or Graduate level MTH 6510 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>CHM2450</td>
<td>2450</td>
<td>Concepts Chem I ECE/MCE</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3.5</td>
<td>Accelerated treatment of fundamental concepts and applications of chemistry for elementary education majors. Emphasizes concrete observable topics most appropriate for presentation to elementary and middle school students. Demonstrations and activities used extensively. Integrated lecture/lab.</td>
<td>UG</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>ECE3400</td>
<td>3400</td>
<td>Class Mgmt &amp; Pos Guide</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Child guidance strategies to facilitate learning and promote social well-being in early childhood classrooms. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6470</td>
<td>6470</td>
<td>Post-Colonial Lit</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Intensive study of post-colonial literature from diverse regions of the global South. Intended to develop critical perspectives on historical periods, genres, language use, thematic concerns, and global trends.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>CSD3240</td>
<td>3240</td>
<td>Strategic Mgt Health Adm</td>
<td>CSD</td>
<td>Community Services Development</td>
<td>3</td>
<td>Strategic planning responsibilities of administrators in the health care industry. Includes business and functional plans, performance audits, organizational culture, gap analysis, values clarification, and decision making.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM3460</td>
<td>3460</td>
<td>Concepts Chem II MCE</td>
<td>CHM</td>
<td>Chemistry</td>
<td>4</td>
<td>Periodic table, chemical reactions, thermochemistry, organic and nuclear chemistry with everyday examples. Inquiry-based activities including historical and societal perspectives. For Middle Childhood Majors pursuing science concentration. Based on National Science Education Standards. Integrated lecture/lab.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1670A</td>
<td>1670A</td>
<td>Swimming: Intermediate</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Swimming: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Level</td>
<td>Type</td>
<td></td>
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<tr>
<td>CHM1020</td>
<td>Elem Organic Chem w/App</td>
<td>CHM Chemistry</td>
<td>4</td>
<td>Introduction to the principles of organic chemistry and biochemistry.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ISE4712</td>
<td>Sim &amp; Stoch Models</td>
<td>ISE Industrial &amp; Systems Engr</td>
<td>4</td>
<td>Study of quantitative techniques to analyze and predict systems performance. Topics include queuing models, system simulation, model validation, data collection, quantitative analysis of system performance, and system design evaluation.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>CEG6350</td>
<td>OS Internals and Design</td>
<td>CEG Computer Engineering</td>
<td>3</td>
<td>Overview of operating systems internals. File-system usage and design, process usage and control, virtual memory, multi user systems, access control. Course projects use C++ language.</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>LDR8030</td>
<td>Fin Mgmt &amp; Ldrshp in Org</td>
<td>LDR Leadership</td>
<td>3</td>
<td>Study of financial management in organizations, with an emphasis on financial planning, budgeting, reporting, analysis, and decision-making. Includes a comprehensive business planning exercise.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>KNH1300B</td>
<td>Hiking</td>
<td>KNH Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Hiking. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>Lab</td>
<td></td>
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<tr>
<td>CNL7801</td>
<td>Marriage Pre-Practicum</td>
<td>CNL Counseling</td>
<td>1</td>
<td>This course focuses on the practice of systemic interventions and problem solving in the process of resolving marriage and family related concerns.</td>
<td>GR</td>
<td>Lab</td>
<td></td>
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<tr>
<td>FR4630</td>
<td>20th Cent Lit: Drama</td>
<td>FR French</td>
<td>3</td>
<td>Study of contemporary plays by playwrights such as Anouilh, Beckett, Césaire, Duras, Genet, Ionesco and Sartre. Taught in French.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ARA5120</td>
<td>Levantine Arabic</td>
<td>ARA Arabic</td>
<td>3</td>
<td>An introduction to the spoken Arabic dialect of Syria, Lebanon, Jordan and Palestine for advanced speakers of Arabic.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>BME6980</td>
<td>Special Topics in BME I</td>
<td>BME Biomedical Engineering</td>
<td>1</td>
<td>Graduate special topics in advanced biomedical engineering. Topics vary.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>GR4810</td>
<td>Independent Reading</td>
<td>GR Greek</td>
<td>1</td>
<td>Topics vary.</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>PTXT7006</td>
<td>Ldrshp, Theory &amp; Application</td>
<td>PTX Pharmacology/Toxicology</td>
<td>3</td>
<td>Leadership is not intuitive; neither the number of degrees, nor length of time on a job are enough to give you the tools to make you a good leader. Fortunately, there is excellent literature available that can offer up the needed advice. Students will apply what they have learned in the classroom through games and role playing. By studying the course texts and having firsthand experience through classroom activities and discussions, this course will help students cultivate their leadership skills using the advice and theories learned.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>LAT3570</td>
<td>Readings Roman Satire</td>
<td>LAT Latin</td>
<td>3</td>
<td>Horace, Juvenal, Persius, Petronius, and Martial. Topics include development of this peculiar Roman genre, fragments of Lucretius, satirical methods and techniques, satirical epigram, and satire as a source of information about Roman private life.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>SPN4710</td>
<td>Spanish As a World Lang</td>
<td>SPN Spanish</td>
<td>3</td>
<td>Linguistic and social history of the Spanish language. Language variation in Spain, Latin America, United States, and other areas of the world where Spanish is spoken.</td>
<td>UG</td>
<td>Seminar</td>
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<tr>
<td>LAT4550</td>
<td>Readings Roman Politics</td>
<td>LAT Latin</td>
<td>3</td>
<td>Readings include Cicero's political essays, the letters of Cicero and Pliny, and Augustus' Res Gestae.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>DAN3080</td>
<td>Interned Tap Dance II</td>
<td>DAN Dance</td>
<td>1</td>
<td>Group classes exploring Tap Dance technique.</td>
<td>UG</td>
<td>Studio</td>
<td></td>
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<tr>
<td>BME6421</td>
<td>Biotransport</td>
<td>BME Biomedical Engineering</td>
<td>3</td>
<td>Behavior of fluids as encountered in everyday life, general and biomedical engineering applications. Properties of body fluids, solute mass transport in biological systems, fluid mechanics of blood and other fluids, oxygen mass transport.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PLS6650</td>
<td>Politics of Nationalism</td>
<td>PLS Political Science</td>
<td>3</td>
<td>Introduction to different dimensions of nationalism. Examination of theories and cases of nationalist movements/conflicts from different parts of the world in order to appreciate relevance of nationalism to contemporary politics and international relations.</td>
<td>GR</td>
<td>Seminar</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Prerequisite(s)</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Civil Lib II Due Process</strong></td>
<td>Cases and related materials on the enforcement of civil rights and liberties through the due process and equal protection claims of the 14th Amendment.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>French Civilization</strong></td>
<td>Study of the main currents of French civilization with emphasis on historical aspects. Conducted in French.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
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<td><strong>Practicum I: CIPD</strong></td>
<td>The practicum provides significant opportunities for candidates to synthesize and apply the knowledge and skills identified in the district-level standards through substantial, standards-based work in real settings.</td>
<td>GR IN Internship</td>
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<td>Spring 2021</td>
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<td><strong>Lean Proc Imp for Engr</strong></td>
<td>Introduction to the practical application of lean manufacturing and kaizen techniques in multiple environments. Includes case studies and team projects based on real world problems and solutions.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Amazon Expedition</strong></td>
<td>This course has two stages. In the first stage, we meet weekly in a classroom setting. Class will consist of mini-lectures, discussion of assigned readings, and field activities.</td>
<td>GR LL Lecture/Lab Combination</td>
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<td>Spring 2021</td>
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<td><strong>Algebraic Mid Schl Tchr</strong></td>
<td>Algebraic principles and linear, polynomial, rational, exponential, logarithmic, and trigonometric functions from a perspective appropriate for middle school teachers. Uses technology to explore how properties of functions appear in various representations.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Adv. Wireless Networks</strong></td>
<td>Advanced topics in Wireless Networking and Mobile Computing, including: queueing system analysis, network theory, multimedia coding and networking, emerging wireless and mobile technologies.</td>
<td>GR LL Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
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<td><strong>DAGSI Registration</strong></td>
<td>This course introduces the fundamental principles of conceiving, designing, developing, and testing information systems applications for business. The course incorporates the applications development lifecycle: determining requirements including business processes, activities, and stakeholders; designing an optimal solution using appropriate business objects, data structures, and algorithms; developing the solution using a high-level programming language; and testing the completed solution.</td>
<td>GR LL Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
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<td><strong>MCE Intern Pt I Methods</strong></td>
<td>Candidates, mentored by a middle grades teacher, shall assist in the planning, organizing, delivering, and assessing of instruction in a 4-9th grade setting applying pedagogical content knowledge from middle childhood content and methods courses.</td>
<td>GR PR Practicum</td>
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<td>Spring 2021</td>
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<td><strong>Clim Weather Crop Growth</strong></td>
<td>Impacts of weather and climate on agriculture crop production. Topics include growing degree days, weather systems, risk management tools for crop production, plant disease issues, and the principles of weather and climate.</td>
<td>GR LL Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Environmental Medicine</strong></td>
<td>Interaction of humans with occupational environments and environmental exposures of both man made and natural sources. Emphasis is focused on injuries, illnesses, risk assessment, as well as public health concerns and prevention in both occupational and environmental settings.</td>
<td>GR LE Lecture</td>
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<td>Spring 2021</td>
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<td><strong>Condition &amp; Learning Mth</strong></td>
<td>Problems and methods of research in conditioning, learning, and motivation. Integrated Writing course.</td>
<td>GR LL Lecture/Lab Combination</td>
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<td>Spring 2021</td>
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<td><strong>Med Aspect Disabilities</strong></td>
<td>Study of medical terminology and disorders that usually require rehabilitation intervention. Additional topics include the impact of disabling conditions on vocational and social activities. Attention given to the pharmacological aspects of treating disabilities.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Independent Readings</strong></td>
<td>Faculty-directed readings in a field of students' choice.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td><strong>Politics of Intelligence</strong></td>
<td>Evolution of intelligence gathering, analysis, and application in policy making in the United States. Tensions inherent between a democracy and a secret agency, and the role of technology. Integrated Writing course.</td>
<td>GR LE Lecture</td>
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<td>Spring 2021</td>
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<td><strong>Diagenesis Sed Rocks</strong></td>
<td>Diagenesis of ancient and modern sedimentary rocks. Theory and application of petrographic techniques with emphasis on porosity development and interpretation of diagenetic environments.</td>
<td>GR LE Lecture/Lab Combination</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>School</td>
<td>Credits</td>
<td>Description</td>
<td>Department Managed Prerequisite(s)</td>
<td>Offered As</td>
<td>Type</td>
<td>Location</td>
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<td>Spring 2021</td>
<td>MLB4110</td>
<td>Orientation Med Lab Sci</td>
<td>MLB</td>
<td>4110</td>
<td>Theory and application of lab safety, universal precautions, specimen collection, quality assurance, phlebotomy, and other techniques fundamental to medical laboratory.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ART4080</td>
<td>Studies in Photography</td>
<td>ART</td>
<td>4080</td>
<td>Explore problems and approaches to photography. May include cross-media and interdisciplinary studies. Department Managed Prerequisite(s): Undergraduate level ART 2580 Minimum Grade of D and Undergraduate level ART 2590 Minimum Grade of D</td>
<td></td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>PHL3130</td>
<td>Metaphysics</td>
<td>PHL</td>
<td>3130</td>
<td>Examines such topics as the problem of universals, free will and determinism, the nature of abstract entities like numbers, the problem of identity and individuation, the nature of time and cause and effect, and the realism and anti-realism debate. Integrated Writing course.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6430</td>
<td>Studies in Gender/Sex</td>
<td>ENG</td>
<td>6430</td>
<td>Intensive study of literature from the perspectives of gender theory. Intended to develop an understanding of gender and sexuality as important both to literature and to its critical appreciation.</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PLS6340</td>
<td>Political Leadership</td>
<td>PLS</td>
<td>6340</td>
<td>Study of political attitude development and acquisition of basic political orientations and values, beginning with childhood and proceeding through adolescence and adulthood. Investigation of the role of various socializing agents.</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>KNH1760A</td>
<td>Walk-Jog-Run</td>
<td>KNH</td>
<td>1760A</td>
<td>Fundamental skills and knowledge of Walk-Jog-Run. Competency-based approach. Course may accommodate disabled students when appropriate. Department Managed Prerequisite(s): Undergraduate level ENG 3400 Minimum Grade of D or Undergraduate level ENG 4710 Minimum Grade of D</td>
<td></td>
<td>UG</td>
<td>Lab</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>EC3100</td>
<td>The Global Economy</td>
<td>EC</td>
<td>3100</td>
<td>Explores how the global economic environment affects business decisions and how these decisions affect the economy of host and source countries. Analyzes the impact of international trade, foreign direct investment, and global monetary systems.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>AFS2000</td>
<td>Experience</td>
<td>AFS</td>
<td>2000</td>
<td>A historical and methodological analysis of both African histories and cultures and the history of the diaspora struggles of persons of African descent to create a life and distinct culture among world civilizations. Integrated Writing course.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6770</td>
<td>ESL: Pre-K-12</td>
<td>ENG</td>
<td>6770</td>
<td>Focuses on ESL education in the U.S. and Ohio. Examines historical and legal precedents. Emphasizes components necessary for successful programs, including curricula, assessment, classroom dynamics, and parental involvement. Department Managed Prerequisite(s): Undergraduate level ENG 3400 Minimum Grade of D or Undergraduate level ENG 4710 Minimum Grade of D</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EED3400</td>
<td>Classroom Management P-5</td>
<td>EED</td>
<td>3400</td>
<td>Classroom management strategies with an emphasis on PBIS to facilitate learning and promote social well-being in P-5 grade classrooms. Integrated Writing course.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MUS1180</td>
<td>Popular Musical Theatre</td>
<td>MUS</td>
<td>1180</td>
<td>Survey of popular musical theatre from its origin in classic comic opera to the present. Emphasis on the Broadway musical since the 1940s.</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PHY6460</td>
<td>Int. Phy Sci &amp; Math II</td>
<td>PHY</td>
<td>6460</td>
<td>Integration of physics and mathematics, fulfilling science and math standards, physics education issues, inquiry teaching practices, and assessment. Applications of these to electricity, magnetism, waves, and optics.</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
<td>Lab/Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG5610</td>
<td>Technical Writing</td>
<td>ENG</td>
<td>5610</td>
<td>Concepts and skills used in scientific and technical writing.</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6710</td>
<td>Intro to Linguistics</td>
<td>ENG</td>
<td>6710</td>
<td>Presents a survey of the scientific study of language and focuses on describing and explaining languages in their natural environment. Includes phonetics, phonology, morphology, syntax, semantics, pragmatics, and sociolinguistics.</td>
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<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>COM3450</td>
<td>Public Relations</td>
<td>COM</td>
<td>3450</td>
<td>Simulation focusing on the processes of a public-relations campaign: fact finding, action planning, implementation of communication channels, and program evaluation.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>URS4500</td>
<td>Issues in City, Reg,&amp;Org Plan</td>
<td>URS</td>
<td>4500</td>
<td>Issues related to planning city, regional, and organizational environments. Topics include housing, growth and regionalism.</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ATH3720</td>
<td>Ethnographic Museum Coll</td>
<td>ATH</td>
<td>3720</td>
<td>An introduction to museums with ethnographic and archaeological materials in their collections. Examination of collections in terms of aesthetic manifestations and historical and cultural content. Utilizes ethnographic and cultural collections housed in museums in Ohio to familiarize students with the importance of collections in documenting the cultural diversity of peoples of the United States and the world. Integrated Writing course.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BMS7520</td>
<td>Molecular Biochemist. II</td>
<td>BMS</td>
<td>7520</td>
<td>Survey course emphasizing an experimental and problem-solving approach to metabolism, nucleic-acid function, protein synthesis, membranes and hormones.</td>
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<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CS6710</td>
<td>6710</td>
<td>Intro to Data Mining</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Introduction to the fundamentals of data mining. Emphasis is on data preparation/evaluation/exploration, association rules, classification, clustering, OLAP/OLAM, pattern/model evaluation, anomaly detection. Students will develop and use data mining software.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7103</td>
<td>7103</td>
<td>Applied Pharm Lifespan</td>
<td>NUR</td>
<td>Nursing</td>
<td>3</td>
<td>Focuses on prescriptive knowledge of pharmacologic agents used in treatment of common primary health care problems, stable chronic disease states and acute care diseases across the lifespan. Emphasis on indications, mechanisms of action, drug interactions, side effects, and client education.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL4500</td>
<td>4500</td>
<td>Seminar Amer Religion</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Selected topics related to the history and practice of religion in America. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1100A</td>
<td>1100A</td>
<td>Bowling</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Bowling. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3540</td>
<td>3540</td>
<td>Multigenre Writing</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Advanced strategies for writing in multiple and mixed genres.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EES4240</td>
<td>4240</td>
<td>Oceanography</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Introduction to the interrelated geology, physics, chemistry, and biology of the ocean.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>PSY8250</td>
<td>8250</td>
<td>Attention</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>The course covers the major theoretical views of human attention in the literature, their implications on human performance in complex, dynamic systems, and their implications on human factors applications.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4740</td>
<td>4740</td>
<td>TESOL Practice/Materia l</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Develops skills in designing curricula through creating and adapting appropriate materials and activities, as well as evaluating and effectively using existing practices and materials available to the teacher of ESL/EFL.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>BMS8020</td>
<td>8020</td>
<td>Immunology</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>4</td>
<td>(Also listed as M&amp;I 7260.) Fundamentals of immunobiology and basic virology. Emphasis on regulatory and cellular level of host immune responses against microbial pathogens as well as mechanisms of immunopathology, and on the characteristics and molecular biology of virus pathogens.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT7220</td>
<td>7220</td>
<td>SLM Resources for Child</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td>Developing school library collections for children. Introduction to children's literature including major authors and illustrators. Selecting materials in different formats such as multimedia, e-books, and reference databases.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC5100</td>
<td>5100</td>
<td>Math for Economics</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Algebra and calculus preparation for economics applications.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7550</td>
<td>7550</td>
<td>Research Projects</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Individual research to satisfy requirements of a program's research study.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5430</td>
<td>5430</td>
<td>Buddhism</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Exploration of Buddhism in terms of its philosophy, rituals, art, architecture, and social practices, with particular emphasis on its origins in South Asia and its spread to the regions of Southeast Asia and Tibet. Study of how to read and critically analyze Buddhist texts and think about Buddhism in historic and anthropological terms.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME5310</td>
<td>5310</td>
<td>Thermodynamic s I</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>This course studies energy and energy conversion from the classical thermodynamics perspective. Properties of fluids, conservation of mass, conservation of energy, and the second law of thermodynamics are studied. These principles are applied to engineering problems.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4800</td>
<td>4800</td>
<td>Classical Mechanics</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>Introduction to classical theoretical physics. Emphasis on mechanics and mathematical techniques.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HED7750</td>
<td>7750</td>
<td>Application Research HPR</td>
<td>HED</td>
<td>Health Education</td>
<td>3</td>
<td>This seminar course addresses the public health priorities for the nation and current health promotion initiatives to alter health behaviors, health status and health disparities.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS3810</td>
<td>3810</td>
<td>Intro to Bioinformatics</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Tools-oriented approach to bioinformatics emphasizing data structure and DNA, string representation in PERL, data searches, pairwise alignments, substitution patterns, protein structure prediction and modeling, proteomics, and web-based bioinformatic tools.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB4950</td>
<td>4950</td>
<td>Biochem Honors Research</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>3</td>
<td>Research experience with a biochemistry and molecular biology faculty member towards the completion of a departmental honors degree.</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART2120</td>
<td>2120</td>
<td>Art Hist II: Ren- Contemp</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Historical survey of modern painting and sculpture in the Western world from the Renaissance to the present.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTE6450</td>
<td>6450</td>
<td>Geometry Mid Schl Tchr</td>
<td>MTE</td>
<td>Mathematics Teacher Education</td>
<td>3</td>
<td>A study of two- and three-dimensional geometry appropriate for grade 4-10 teachers. Compass constructions, triangle congruence postulates, Pythagorean Theorem and proofs. Surface area and volume. Coordinate geometry applied to proofs and transformations.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG2170L</td>
<td>2170L</td>
<td>Intro to C Proj for S&amp;E Lab</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>0</td>
<td>Required laboratory for CEG 2170.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART4000</td>
<td>4000</td>
<td>Art Seminar</td>
<td>ART</td>
<td>Art</td>
<td>2</td>
<td>Group discussions of contemporary writings in art and critiques of student work in a peer setting with faculty and visiting artists participating on an informal basis.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS6550</td>
<td>6550</td>
<td>Vocal Literature I</td>
<td>MUS</td>
<td>Music</td>
<td>2</td>
<td>Survey of vocal literature from the 18th through the 20th century emphasizing German lieder, French melodie, English and American art songs.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6400</td>
<td>6400</td>
<td>Glacial Landforms</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>2</td>
<td>This is a field trip course examining the landforms, processes, and deposits associated with Pleistocene continental glaciation, as well as subsequent post-glacial modifications. The trip traverses from Dayton, Ohio, to the Fingerlakes region of central New York.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ES7010</td>
<td>7010</td>
<td>Sel Topics in Env Sci</td>
<td>ES</td>
<td>Environmental Sciences</td>
<td>1</td>
<td>New or existing courses for which a formal ES course designation does not yet exist, but for which an ES course designation may be warranted on a case by case basis.</td>
<td>GR</td>
<td>LR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CLS4970</td>
<td>4970</td>
<td>Senior Project</td>
<td>CLS</td>
<td>Classics</td>
<td>3</td>
<td>Guided research culminating in a major paper on a topic chosen by the student and the instructor. Students develop a comprehensive bibliography, prepare a detailed outline, and write and revise the final project. May be completed for Honors.</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH6310</td>
<td>6310</td>
<td>Real Variables I</td>
<td>MTH</td>
<td>Mathematics</td>
<td>3</td>
<td>The real number system, inequalities, completeness, limits, sequences and the Cauchy criterion, functions, continuity, differentiability, the mean value theorem, L Hospital's rule, Taylor's theorem, the Riemann integral, fundamental theorem of calculus, approximate integration, improper integrals. Department Managed Prerequisite(s): Undergraduate level MTH 2800 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC3170</td>
<td>3170</td>
<td>Interned Macroeconomic s</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Analysis of national economic problems including inflation, unemployment, interest rates, and economic stability. Emphasizes the impact of public policy. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7100</td>
<td>7100</td>
<td>Tchr Ldr Mstr Sem: Entry</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Examining belief systems, teaching styles, teachers as learners; intra- and interpersonal communication skills needed in leadership roles; and functioning in a multicultural/pluralistic society.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN4120</td>
<td>4120</td>
<td>Modern Dance IV</td>
<td>DAN</td>
<td>Dance</td>
<td>3</td>
<td>Advanced work in various modern dance techniques and styles.</td>
<td>UG</td>
<td>ST</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DEV0100</td>
<td>0100</td>
<td>Found Academic Writing&amp;Readin g</td>
<td>DEV</td>
<td>Developmental Education</td>
<td>3</td>
<td>Intensive instruction in reading, writing, and critical thinking. Emphasizes reflection, revision, collaboration, and self-assessment to prepare students for collegiate success.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ABS7110</td>
<td>7110</td>
<td>Research Methods II</td>
<td>ABS</td>
<td>Applied Behavioral Science</td>
<td>3</td>
<td>Analysis and interpretation of data in social research, with emphasis on multivariate statistical techniques.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6270</td>
<td>6270</td>
<td>Literacy Lessons Training II</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Teachers certified/licensed in special education, ESL, or bilingual education deepen their understanding of Clay’s literacy processing theory to help students in special populations to develop effective reading and writing systems.</td>
<td>GR</td>
<td>LE</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Department</td>
<td>Level</td>
<td>Type</td>
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<tr>
<td>BME3512</td>
<td>EES6410 Phys Geo Nat Hist Ohio</td>
<td>4</td>
<td>This is a field trip course examining the landforms, processes, and deposits associated with Pleistocene continental glaciation, as well as subsequent post-glacial terrain modification. The course involves 1 day of lecture/lab and 4 one-day thematic field trips.</td>
<td>EES</td>
<td>G</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>BIO4550</td>
<td>BIO1060L Global Eco and Diversity</td>
<td>3</td>
<td>Concepts and principles required to develop an import/export strategy and conduct import/export operations. Application of international trade policies, competitive strategies, U.S. and foreign government trade promotion resources to selected country and product for importing/exporting. Integrated Writing course.</td>
<td>BIO</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>CNL6620</td>
<td>SOC3100 Marriage and Family</td>
<td>3</td>
<td>Sociological analysis of the development of the family and its relationship to society and the individual. Topics include courtship, marriage, parenthood, adulthood, and aging.</td>
<td>SOC</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>PTX8080</td>
<td>KNH1820 Winter Camping</td>
<td>1</td>
<td>Fundamental skills and knowledge of Winter Camping. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>KNH</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>BIO3512</td>
<td>PTX Pharmacology/Toxicology</td>
<td>3</td>
<td>This is a translational medicine class that connects wound healing (skin anatomy and physiology phases of wound healing) with wound care (wound closure and the reconstructive ladder in plastic surgery).</td>
<td>PTX</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>IB4860</td>
<td>IB4860 Intl Trade Management</td>
<td>3</td>
<td>Concepts and principles required to develop an import/export strategy and conduct import/export operations. Application of international trade policies, competitive strategies, U.S. and foreign government trade promotion resources to selected country and product for importing/exporting. Integrated Writing course.</td>
<td>IB</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>PHY4460</td>
<td>PHY Physics</td>
<td>3</td>
<td>Acquaints physics teachers with the multiple representation method used in constructing concepts and problem solving in physical science. Focus will be placed on representations including pictorial representations, motion and force diagrams, graphs, energy bar charts, ray and wave front diagrams, and use of analogies.</td>
<td>PHY</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>KNH4110</td>
<td>EDS6630 Intro Asst Tech/ Aug Comm</td>
<td>3</td>
<td>Assessment, use, and application of adaptive technology for persons with exceptionalities in all educational settings. Etiology, problems and needs of non-speaking individuals. Hands-on experiences required with adaptive/augmentative aids/devices.</td>
<td>EDS</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>ENG6460</td>
<td>ENGLISH Literature Genre/Theme</td>
<td>3</td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td>ENG</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PSY4730</td>
<td>PSY Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on the perception of hearing. Integrated Writing course.</td>
<td>PSY</td>
<td>SR</td>
<td>Seminar</td>
<td></td>
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<tr>
<td>ED7120</td>
<td>ED Education</td>
<td>3</td>
<td>Developing knowledge of a wide variety of children’s literature. Demonstrate understanding of how to use diverse texts as an instructional tool to meet the needs of a diverse culture.</td>
<td>ED</td>
<td>EE</td>
<td>Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>WGS4250</td>
<td>WGS Women Intl Perspective</td>
<td>3</td>
<td>Racial, ethnic, cultural, and other differences among women outside of the U.S. Focus may be on one nation, region, or a comparative perspective, including a comparative perspective with U.S. women. Topics and titles vary. Integrated Writing course.</td>
<td>WGS</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ME6330</td>
<td>ME Mechanical and Materials Engr</td>
<td>3</td>
<td>Fundamentals of gas flow in the subsonic to supersonic flow regimes. Wave propagation in compressible medium, one-dimensional isentropic flow with area change, frictional effects, heat transfer effects and two-dimensional waves. Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D or Undergraduate level ME 5350 Minimum Grade of D.</td>
<td>ME</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Grade</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>SPN2210</td>
<td>Intern Sp I for Medical</td>
<td>SPN Spanish</td>
<td>3</td>
<td>Intermediate level Spanish course with service component. Grammar, vocabulary, oral and written communication skills, cultural sensitivity training in the context of the medical profession. Service-learning course.</td>
<td>UG LE Lecture</td>
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<tr>
<td>EC4190</td>
<td>International Economics</td>
<td>EC Economics</td>
<td>3</td>
<td>Basic trade theories, commercial policy, and theories of international investment and migration, exchange rate determination and open macroeconomics. Special attention to international financial institutions and current financial crises.</td>
<td>UG LE Lecture</td>
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<tr>
<td>URS6460</td>
<td>Transportation Principle</td>
<td>URS Urban Affairs</td>
<td>3</td>
<td>Overview of principles related to developing and managing public and human service transportation systems. Examination of the role of public and human service transportation in society, history and geography of public transportation, and spatial, funding, organizational, cost benefit, labor, and customer service issues.</td>
<td>GR LE Lecture</td>
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<tr>
<td>ASM7000</td>
<td>Accident Investigation</td>
<td>ASM Aerospace Medicine</td>
<td>3</td>
<td>This course provides an overview of aerospace accident investigation procedures, relevant regulations, and interdisciplinary management from an aeromedical perspective. Selected advance topics include the analysis of relevant aerospace accident reports, post-crash survivability, and future directions.</td>
<td>GR LE Lecture</td>
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<tr>
<td>TTW6450</td>
<td>Intro Transition TTW</td>
<td>Transition to Work</td>
<td>3</td>
<td>Overview of the impact of Career Technical Education and Special Education processes on the transition of students with exceptionalities from high school to adulthood, particularly in the area of employment.</td>
<td>GR LE Lecture</td>
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<tr>
<td>EDL7900</td>
<td>Instruc Ldrshp Practicum EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Focusing on the roles performed by practicing instructional leaders. Candidates observe, interact and draw conclusions from field experience by integrating the field experience with knowledge, skills, and dispositions gained in previous coursework.</td>
<td>GR IN Internship</td>
<td></td>
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<tr>
<td>SLI3570</td>
<td>Business of Interpreting SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Explain the business and professional aspects of interpreting for the Deaf. Taxes, scheduling, peer relations, professional behavior, and communication with consumers, both hearing and Deaf, will be covered.</td>
<td>UG LE Lecture</td>
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<tr>
<td>RHB3810</td>
<td>Intro Disability Studies RHB</td>
<td>Rehabilitation</td>
<td>3</td>
<td>Introduction to the interdisciplinary field of disability studies, with a focus on the critical analysis of key theoretical views, historical and current sociocultural understandings of embodiment, difference, power, disability culture, justice, and activism.</td>
<td>UG LE Lecture</td>
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<tr>
<td>ACC4390</td>
<td>Advanced&amp;Govmmt/Not Profit Acc ACC</td>
<td>Accountancy</td>
<td>3</td>
<td>Accounting for business consolidations. In addition, the course will introduce fund accounting along with accounting for not-for-profit and governmental entities.</td>
<td>UG LE Lecture</td>
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<tr>
<td>EC3450</td>
<td>Economics of Diversity EC</td>
<td>Economics</td>
<td>3</td>
<td>Uses economic theory to explore the implications of ethnic, racial, religious and other kinds of diversity in the U.S. and globally.</td>
<td>UG LE Lecture</td>
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<tr>
<td>EES6620</td>
<td>Environmental Toxicology EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Study of the effects of environmental contaminants on aquatic and terrestrial organisms. Effects on the biochemical and physiological levels are related to impacts on individuals, populations, and ecosystems. Current approaches for assessing environmental toxicity are presented.</td>
<td>GR LE Lecture</td>
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<tr>
<td>HED3760</td>
<td>Methods Pub Health Ed HED</td>
<td>Health Education</td>
<td>3</td>
<td>Comprehensive overview of the practical tools and skills commonly used by public health education specialists in a variety of settings.</td>
<td>UG LE Lecture</td>
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<tr>
<td>ISM8400</td>
<td>Dissertation Research ISM</td>
<td>Interdis. Appl. Sci. and Math</td>
<td>1</td>
<td>The research work to be performed will be supervised by an ISM Program Faculty member. The scope and milestones required for the dissertation research shall be decided upon by the faculty member in consultation with the student.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>MUS7890</td>
<td>Continuing Registration MUS</td>
<td>Music</td>
<td>1</td>
<td>Registration for graduate students to maintain graduate status while completing requirements other than required courses.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>CS6830</td>
<td>Systems Simulation CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Introduction to simulation concepts and techniques. Topics include modeling, discrete simulation, continuous simulation, random number generators, input distribution selection and analysis of simulation results. Emphasis is on the application of simulation techniques for analyzing behavior of real systems.</td>
<td>GR LE Lecture</td>
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<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Description</td>
<td>Days</td>
<td>Hours</td>
<td>Type</td>
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<tr>
<td>Spring 2021</td>
<td>PPH6400</td>
<td>6400</td>
<td>Social and Behavioral De</td>
<td>This course addresses the socio-ecological and behavioral theories of health behavior and their application to designing theory-based interventions. Students develop a theory-based logic map for one risk or protective health behavior.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>BMB4210</td>
<td>4210</td>
<td>Biochem and Mol Bio I</td>
<td>Basic principles of biochemistry and molecular biology of the cells at the molecular level. Emphasizes experimental procedures used to generate current understanding of the biochemistry of proteins, enzymes and nucleic acids.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>DOS9030</td>
<td>9030</td>
<td>Systems Change Org Set</td>
<td>Doctoral level course in application of systems and theories of change, with a focus on leadership and policy implications in community, government, non-profit, and educational settings.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>MGT6750</td>
<td>6750</td>
<td>Small Business Mgt.</td>
<td>An examination of the competencies required of small business managers including hiring and motivating employees and balancing stakeholders' interests.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CHM3510R</td>
<td>3510R</td>
<td>Physical Chem Lab I Recitation</td>
<td>Required recitation for 3510. Integrated Writing course.</td>
<td>UG</td>
<td>RE</td>
<td>Recitation</td>
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<tr>
<td>Spring 2021</td>
<td>LE1030</td>
<td>1030</td>
<td>Intr to Crim Evid &amp; Pro</td>
<td>Organization and functioning of the court system. Review of arrest and search procedures, issues of due process such as the Sixth Amendment and Miranda Law and the role of police, attorneys, and prosecutors. Department Managed Prerequisite(s): Undergraduate level LE 1000 Minimum Grade of D or Undergraduate level LE 1010 Minimum Grade of D.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CEG6420</td>
<td>6420</td>
<td>Host Computer Security</td>
<td>This course will build on computer security topics discussed in CEG 6420, Host Computer Security and will involve discussion about low-level computer security vulnerabilities, reverse engineering, malware analysis, vulnerability discovery, reverse engineering tool development, and advanced program analysis techniques. Department Managed Prerequisite(s): Graduate level CEG 6420 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>DAN1120</td>
<td>1120</td>
<td>Modern Dance I</td>
<td>Modern dance technique class for pre-professional dancers. Emphasis on helping students become strong, versatile dancers by expanding their body's range of motion while emphasizing alignment, coordination, strength and flexibility of the torso.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
<td>CEG7420</td>
<td>7420</td>
<td>Rev Eg &amp; Prog Analysis</td>
<td>This course will build on computer security topics discussed in CEG 6420, Host Computer Security and will involve discussion about low-level computer security vulnerabilities, reverse engineering, malware analysis, vulnerability discovery, reverse engineering tool development, and advanced program analysis techniques. Department Managed Prerequisite(s): Graduate level CEG 6420 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>KNH2000A</td>
<td>2000A</td>
<td>Army Fitness Tr. III</td>
<td>Fundamental skills and knowledge of Army Fitness Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>CEG4180</td>
<td>4180</td>
<td>Obj-Oriented Prog&amp;Design</td>
<td>Study of object-oriented design and programming. Programming topics emphasize the core concepts of encapsulation, inheritance, polymorphism, and dynamic binding. Additional topics include class organization, software maintenance, and design of reusable components.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Type</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>Spring 21</td>
<td>ACC4460</td>
<td>4460</td>
<td>Financial Statmt Analysis</td>
<td>ACC Accountancy</td>
<td>3</td>
<td>Topics in financial statement analysis and firm valuation suitable for undergraduate accounting students. Focus in this course is on applying methods to analyze firm strategies using financial statement analysis. Relevant for assessing value generated by various strategic scenarios. Students work together in small groups, using the financial statements of public firms, to practice applying analysis techniques learned in class.</td>
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<tr>
<td>Spring 21</td>
<td>SOC4912</td>
<td>4912</td>
<td>Drug&amp;Alcohol Intrvntn Workshop</td>
<td>SOC Sociology</td>
<td>2</td>
<td>Participant observation of the intervention and treatment of drug and alcohol problems including therapy and counseling groups, client/therapist contact, and professionals practicing intervention and confrontation techniques.</td>
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<tr>
<td>Spring 21</td>
<td>ME7990</td>
<td>7990</td>
<td>Independent Study</td>
<td>ME Mechanical and Materials Engr</td>
<td>1</td>
<td>Independent study in Mechanical Engineering, Materials Science and Engineering, and Renewable and Clean Energy. Topics vary.</td>
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<tr>
<td>Spring 21</td>
<td>ME4910</td>
<td>4910</td>
<td>Capstone Design I</td>
<td>ME Mechanical and Materials Engr</td>
<td>2</td>
<td>First of a two-semester course in solving realistic engineering design problems. Research in professional literature, application of systems engineering principles, and reporting of technical results. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level ME 1040 Minimum Grade of D and Undergraduate level ME 3600 Minimum Grade of D and Undergraduate level MTH 2320 Minimum Grade of D and Undergraduate level MTH 2350 Minimum Grade of D and Undergraduate level PHY 2410 Minimum Grade of D and Undergraduate level PHY 2410L Minimum Grade of D and ((Undergraduate level ME 3210 Minimum Grade of D and Undergraduate level ME 3350 Minimum Grade of D and Undergraduate level ME 3360 Minimum Grade of D and Undergraduate level ME 4140 Minimum Grade of D) or (Undergraduate level ME 3760 Minimum Grade of D and Undergraduate level ME 4620 Minimum Grade of D (ME 4620 can be taken concurrently) and Undergraduate level ME 4720 Minimum Grade of D)).</td>
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<td>Spring 21</td>
<td>MTH4880</td>
<td>4880</td>
<td>Independent Read Math</td>
<td>MTH Mathematics</td>
<td>1</td>
<td>Selected readings in mathematics.</td>
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<tr>
<td>Spring 21</td>
<td>ENG4950</td>
<td>4950</td>
<td>TEFL Workshop</td>
<td>ENG English</td>
<td>3</td>
<td>Intensive study of selected special topics or problems to meet the particular needs of participating students. Titles vary. Department Managed Prerequisite(s): Undergraduate level ENG 2100 Minimum Grade of D.</td>
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<tr>
<td>Spring 21</td>
<td>PSY9973</td>
<td>9973</td>
<td>Practicum III</td>
<td>PSY Professional Psychology</td>
<td>1</td>
<td>Field experience supervised by a licensed psychologist.</td>
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<tr>
<td>Spring 21</td>
<td>PSY9990</td>
<td>9990</td>
<td>Dissertation Research</td>
<td>PSY Psychology</td>
<td>1</td>
<td>Original research of a quality that is publishable in refereed journals. Research must be acceptable to the supervisory committee, submitted in writing and defended by public oral examination.</td>
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<tr>
<td>Spring 21</td>
<td>IT3400</td>
<td>3400</td>
<td>3D Digital Modeling</td>
<td>IT Information Technology</td>
<td>3</td>
<td>Fundamental topics of 3D digital modeling will be explored in both a virtual and 3D printing environment. Will learn how to texture, animate, and edit to build an animated model that will be exported into an online 3D hosting and loaded into a 3D virtual environment and augmented reality app.</td>
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<td>Spring 21</td>
<td>KNH1450</td>
<td>1450</td>
<td>Rape Def Strat Basic</td>
<td>KNH Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Rape Defense Strategies: Basic. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>Spring 21</td>
<td>MUS1170</td>
<td>1170</td>
<td>Jazz History and Music</td>
<td>MUS Music</td>
<td>3</td>
<td>Historical survey of jazz and related styles from the late 19th century to the present.</td>
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<tr>
<td>Spring 21</td>
<td>CS7980</td>
<td>7980</td>
<td>Part-time CPT in CS</td>
<td>CS Computer Science</td>
<td>0</td>
<td>Practical work experience in graduate level Computer Science.</td>
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<tr>
<td>Spring 21</td>
<td>FR6640</td>
<td>6640</td>
<td>FR Canadian Lit &amp; Film</td>
<td>FR French</td>
<td>3</td>
<td>French Canadian literature and film in its socio-historical context, with focus on works of Acadian and Québécois poets, novelists and playwrights (such as Maillet, Tremblay, Thériault) and filmmakers (such as Forest, Chiasson, Bélanger, Mitrami, Saia and Filatruault). Taught in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D.</td>
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<td>Spring 21</td>
<td>COM1030</td>
<td>1030</td>
<td>Writing for Com</td>
<td>COM Communication</td>
<td>3</td>
<td>Introduction to fundamentals of critical inquiry. Study of critical thinking, conducting research and analysis. Comprehensive academic writing included.</td>
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<tr>
<td>Spring 21</td>
<td>CEG4330L</td>
<td>4330L</td>
<td>Microproc Embedded Sys Lab</td>
<td>CEG Computer Engineering</td>
<td>0</td>
<td>Required laboratory for CEG 4330.</td>
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<td>Spring 21</td>
<td>TH3200</td>
<td>3200</td>
<td>Applied Theatre Tech I</td>
<td>TH Theatre</td>
<td>3</td>
<td>Practical study in technical execution. Emphasis on daily operation of theatre production facilities and shops. Participation in all major department productions required.</td>
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<td>Course Code</td>
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<td>Department</td>
<td>Credits</td>
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<td>Notes</td>
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<tr>
<td>Spring 2021</td>
<td>EDT9990 Thesis</td>
<td>EDT</td>
<td>9990</td>
<td>Lecture</td>
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<td></td>
<td>Educational Technology</td>
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<td>Lecture</td>
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<td>The project may be a thesis or creative production and is prepared under the guidance of the student's advisory committee.</td>
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<tr>
<td>Spring 2021</td>
<td>PSY5130L Meth in Clinical Psy Lab</td>
<td>PSY</td>
<td>5130L</td>
<td>Lecture</td>
<td>Required laboratory for PSY 5130.</td>
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<td></td>
<td>Psychology</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>DAN4050 Musical Theatre Dance IV</td>
<td>DAN</td>
<td>4050</td>
<td>Lecture</td>
<td>Advanced group classes applying Ballet, Jazz and Modern Dance techniques to Musical Theatre Dance, focusing on professional preparation.</td>
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<td></td>
<td>Dance</td>
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<td>3</td>
<td>Lecture</td>
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<td></td>
<td>The course provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
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<tr>
<td>Spring 2021</td>
<td>CHM4350L Instrumental Analy Lab</td>
<td>CHM</td>
<td>4350L</td>
<td>Lecture</td>
<td>Instrumental techniques and analysis giving practical experience in the operation of chemical instrumentation.</td>
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<td></td>
<td>Chemistry</td>
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<td>3</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>Ptx8600 Prim Biomedical Research</td>
<td>PTX</td>
<td>6600</td>
<td>Lecture</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research.</td>
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<td></td>
<td>Pharmacology/Teoricsology</td>
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<td>1</td>
<td>Lecture</td>
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<td></td>
<td>The course provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
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<td>Spring 2021</td>
<td>PLS4720 Terrorism and Counterterrorism</td>
<td>PLS</td>
<td>4720</td>
<td>Lecture</td>
<td>Surveys the phenomenon of terrorism: who employs it, how and why it occurs in international politics, and how states respond to terrorism. Integrated Writing course.</td>
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<td></td>
<td>Political Science</td>
<td></td>
<td>3</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BME7210 Ortho &amp; Prosthetic Engr</td>
<td>BME</td>
<td>7210</td>
<td>Lecture</td>
<td>The course enables the student to use engineering techniques in orthopaedic and prosthetic applications. Students also learn some of the human anatomy and terminology used by physicians and other practitioners so that they may become more literate and better able to communicate with the latter professions and to understand the literature in this field of biomechanics. Department Managed Prerequisite(s): Undergraduate level BME 3212 Minimum Grade of D.</td>
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<td></td>
<td>Biomedical Engineering</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PHL5800 Ident. Respons. Death</td>
<td>PHL</td>
<td>5800</td>
<td>Lecture</td>
<td>Study of three fundamental beliefs when thinking ethically: that a person exists as one person over time; that we are responsible for at least some of what we do; and that death is bad for the person who dies.</td>
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<td></td>
<td>Philosophy</td>
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<td>3</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ENG6760 TESOL Assessment</td>
<td>ENG</td>
<td>6760</td>
<td>Lecture</td>
<td>Investigates key concepts and underlying theories in the field of language assessment. Looks at purposes and types of assessment with a focus on the development and use of authentic assessment for English language learners.</td>
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<td>English</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>SOC3500 Sociological Theory</td>
<td>SOC</td>
<td>3500</td>
<td>Lecture</td>
<td>Introduction to sociological theory focused primarily on the ideas, concepts, assumptions, imagery and classical roots of major contemporary theoretical orientations. Integrated Writing course.</td>
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<td></td>
<td>Sociology</td>
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<td>3</td>
<td>Lecture</td>
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<td>Spring 2021</td>
<td>CEG5310 Computer Organization</td>
<td>CEG</td>
<td>5310</td>
<td>Lecture</td>
<td>Organization and sequential operation of digital computers. Binary and hexadecimal number systems, 2's complement arithmetic, program control, memory organization and hierarchy, addressing modes, stacks and parameter passing, interrupts and traps, I/O devices, DMA, cache, and virtual memory. Department Managed Prerequisite(s): Graduate level CS 1181 Minimum Grade of D.</td>
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<td>Computer Engineering</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>SOC4820 Social Gerontology</td>
<td>SOC</td>
<td>4820</td>
<td>Lecture</td>
<td>Study of social aspects of aging, the needs of the aging population, and society's response to those needs. A life course persepctive that incorporates cultural, economic, historical and structural contexts provides the framework for examining aging-related issues, particularly in regards to the impact on quality of life for older adults.</td>
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<td></td>
<td>Sociology</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MUE6680 Jazz Band</td>
<td>MUE</td>
<td>6680</td>
<td>Lecture</td>
<td>A jazz performance-oriented group. Students learn elements of ensemble execution, professionalism, jazz history, jazz styles, and jazz improvisation. Audition required.</td>
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<td>Music: Ensembles</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EGR3980 Special Topics in EGR</td>
<td>EGR</td>
<td>3980</td>
<td>Lecture</td>
<td>Special topics in Engineering and Computer Science.</td>
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<td>Engineering</td>
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<td>Spring 2021</td>
<td>ART4010 Ind Study in Art History</td>
<td>ART</td>
<td>4010</td>
<td>Lecture</td>
<td>Intensive individual work with faculty supervision in art history.</td>
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<td>Art</td>
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<td>Spring 2021</td>
<td>ARA4310 Classical Arabic Texts</td>
<td>ARA</td>
<td>4310</td>
<td>Lecture</td>
<td>A text-based course introducing students to the history and development of the earliest Arabic prose writings (7th-11th century). Department Managed Prerequisite(s): Undergraduate level ARA 3210 Minimum Grade of D.</td>
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<td>Arabic</td>
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<td>3</td>
<td>Lecture</td>
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<td>Spring 2021</td>
<td>CS4270 Optimization Techniques</td>
<td>CS</td>
<td>4270</td>
<td>Lecture</td>
<td>Algorithms for optimizing real functions of several variables subject to equality and inequality constraints. Convexity properties of functions and sets, linear programming, simplex and interior point methods, integer programming, branch and bound algorithm, transportation problem, necessary and sufficient conditions for nonlinear function optimization, Newton and quasi-Newton methods, Lagrange multiplier conditions, Kuhn-Tucker conditions, dynamic programming.</td>
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<td>Computer Science</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CS6810 Bioinformatic Algorithms</td>
<td>CS</td>
<td>6810</td>
<td>Lecture</td>
<td>Theory-orientated approach to the application of contemporary algorithms to bioinformatics. Graph theory, complexity theory, dynamic programming and optimization techniques are introduced in the context of application toward solving specific computational problems in molecular genetics.</td>
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<td>Computer Science</td>
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<td>Adv Inorganic Syn Lab</td>
<td>CHM</td>
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<td>CHM7890</td>
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<td>Continuing Registration</td>
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<td>CHM4340</td>
<td>4340</td>
<td>Sim of Thermal-Fluids</td>
<td>ME</td>
<td>3</td>
<td>3</td>
<td>Lecture</td>
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<td>CHM33120</td>
<td>3120</td>
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<td>Sim of Thermal-Fluids</td>
<td>ME</td>
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<td>3</td>
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<td>Spring 2021</td>
<td>ATH5000</td>
<td>5000</td>
<td>Cultures/Native North Am</td>
<td>ATH</td>
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<td>Anthrology</td>
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<td>6990</td>
<td>Lab Rotation</td>
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<td>Adv Inorganic Syn Lab</td>
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<td>Credit Type</td>
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<tr>
<td>REL3810</td>
<td>3810</td>
<td>REL Religion</td>
<td>Anthro of Religion</td>
<td>3</td>
<td>(also listed as ATH 4020) Introduction to the anthropological study of religions of the world and how they relate to other domains of human cultural existence. Examples of contemporary non-western religions and other world religions. Integrated Writing course.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>PLS4350</td>
<td>4350</td>
<td>Political Corruption</td>
<td>Political Science</td>
<td>3</td>
<td>Analysis of political corruption including campaign and elections, graft, the executive branch, congressional ethics, corruption in law enforcement, organized crime and abuse of authority.</td>
<td>UG SE</td>
<td>Seminar</td>
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<tr>
<td>CST850</td>
<td>7850</td>
<td>Computer Science</td>
<td>Privacy Aware Computing</td>
<td>3</td>
<td>This course will introduce the fundamental problems with data privacy and security in large scale data intensive distributed computing, and the existing techniques used to protect data privacy and security. Students will be exposed to the latest research problems in this area.</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>TH4130</td>
<td>4130</td>
<td>Theatre</td>
<td>Acting Professionally</td>
<td>3</td>
<td>Students assemble audition pieces, interview skills, financial plans, resumes, headshots, web-sites, and information about various markets, unions, and employment opportunities, in preparation for a professional career in acting.</td>
<td>UG LL</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>EGR4940</td>
<td>4940</td>
<td>EGR Engineering</td>
<td>Internship III</td>
<td>3</td>
<td>Third internship course. Students are supervised via weekly seminars and regular feedback from employers.</td>
<td>UG IN</td>
<td>Internship</td>
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<tr>
<td>EE6550L</td>
<td>6550L</td>
<td>EE Electrical Engineering</td>
<td>IC Hardware Security&amp;Trust Lab</td>
<td>1</td>
<td>Students learn to implement hardware security/trust detection methods using the techniques learned in class and implement countermeasures to improve trust for hardware IC systems through both ASIC and FPGA. Topics include the introduction of Xilinx Vivado and Cadence, and hardware Trojans insertion, hardware Trojans detection in various techniques. Department Managed Prerequisite(s): Undergraduate level EE 2000/L Minimum Grade of D and Undergraduate level EE 4540/L Minimum Grade of D or similar digital circuit design.</td>
<td>GR LB</td>
<td>Lab</td>
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<tr>
<td>EES4200</td>
<td>4200</td>
<td>EES Environmental Sciences</td>
<td>Micropaleontogy</td>
<td>4</td>
<td>Origin, evolution, and diversity of microfossil organisms. Use of microfossils as biostratigraphic indicators, and their role in interpreting the geologic history of the Earth. Paleoecological and paleoenvironmental reconstruction using specific microfossil organisms. Microfossils as indicators of metamorphism and their use in locating geologically derived energy resources. Integrated Writing course.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>CLS5300</td>
<td>5300</td>
<td>CLS Classics</td>
<td>Ancient Literature</td>
<td>3</td>
<td>Offers variety of topics including drama, epic, and lyric poetry; prose; selected themes in ancient literature; and literary criticism.</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>PLS7982</td>
<td>7982</td>
<td>PLS Political Science</td>
<td>Intell and Homeland Sec</td>
<td>3</td>
<td>This course examines how intelligence interacts with homeland security, its impact on both individuals and society. Civil liberties, public perception, and the rule of law and the intelligence community are studied. This course may culminate in a security clearance for eligible class members.</td>
<td>GR SE</td>
<td>Seminar</td>
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<tr>
<td>P&amp;N7760</td>
<td>7760</td>
<td>P&amp;N Physiology &amp; Neuroscience</td>
<td>Inter cellular Comm</td>
<td>3</td>
<td>Introduces the concepts of intercellular communication through an interdisciplinary presentation of immune and neuroendocrine system functions. Emphasizes the similarities between the systems and the multidisciplinary approaches used to study each.</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>URS4450</td>
<td>4450</td>
<td>URS Urban Affairs</td>
<td>Community Development</td>
<td>3</td>
<td>Evolution of community development theory and practice in the U.S and the process of community building and asset-based community development in a service learning format. Develops understanding of how to help community members define community needs and identify community assets and learn how to analyze and present qualitative data.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>ME4585</td>
<td>4585</td>
<td>ME Materials Engr</td>
<td>Natural Gas Prod EGR</td>
<td>3</td>
<td>Knowledge of natural gas production and the associated separation processes to extract gas from oil, recognize the properties of natural gas, perform design calculations involved in production, development and distribution of effluent treatments and the environmental impacts of natural gas. Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 2400 Minimum Grade of D and Undergraduate level ME 3350 Minimum Grade of D.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>HST4600</td>
<td>4600</td>
<td>HST History</td>
<td>Early American History</td>
<td>3</td>
<td>Examines Colonial, Revolutionary, and early Republic periods of American history. Topics vary. Integrated Writing course.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>EES4340</td>
<td>4340</td>
<td>EES Environmental Sciences</td>
<td>Mapping Methods</td>
<td>2</td>
<td>Basic skills of mapping and measurement with a Brunton compass as applied to field studies in the earth and environmental sciences. Key skills include pace and compass traverse mapping, triangulation, bearing and reverse bearings, measurement of lines and planes.</td>
<td>UG LL</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>EGR1010R</td>
<td>1010R</td>
<td>EGR Engineering</td>
<td>Intr Math for Egr Apps Rec</td>
<td>0</td>
<td>Required recitation for EGR 1010. Integrated Writing course.</td>
<td>UG RE</td>
<td>Recitation</td>
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<td>NUR2124C</td>
<td>2124C</td>
<td>NUR Nursing</td>
<td>Nur for Unlicensed HC Clinical</td>
<td>0</td>
<td>Required clinical for NUR 2124. Integrated Writing course.</td>
<td>UG CL</td>
<td>Clinical</td>
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<tr>
<td>Spring 2021</td>
<td>EES4550</td>
<td>4550</td>
<td>Aqueous Environ Geoschem</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Interactions between natural fresh waters and their geologic environments. Includes chemical equilibrium, modeling using PHREEQC, carbonate system, water-rock interactions, sorption isotherms, redox reactions, biologic influences on aqueous geochemistry, and applications of environmental isotopes.</td>
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<td>Spring 2021</td>
<td>CS1150</td>
<td>1150</td>
<td>Intro to Comp Sci</td>
<td>CS</td>
<td>Computer Science</td>
<td>4</td>
<td>Expose students to the scientific method as implemented in computer science. Topics include basic programming, web design, database, logic gates, algorithm development and fundamentals of networking. The course requires students to apply and extend the concepts in a laboratory setting.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>P&amp;N7010</td>
<td>7010</td>
<td>Sel Topics in Physiology</td>
<td>P&amp;N</td>
<td>Physiology &amp; Neuroscience</td>
<td>1</td>
<td>A selected area of physiology is discussed in greater detail than in basic physiology courses. Some topics may include laboratory.</td>
<td>GR</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>ME6080</td>
<td>6080</td>
<td>Design Optimization</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Graphie, analytical, numerical, and symbolic techniques are used in the kinematic and dynamic analysis of machines. Computer-aided design of mechanisms is introduced. Emphasis on the application of these techniques to planar mechanisms.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ANT8600</td>
<td>8600</td>
<td>Prim Biomedical Research</td>
<td>ANT</td>
<td>Anatomy</td>
<td>1</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research. PBR provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>MUS4560</td>
<td>4560</td>
<td>Vocal Literature II</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>Survey of vocal literature from the 18th through the 20th century emphasizing opera and oratorio.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>PHY8250</td>
<td>8250</td>
<td>Fund of Bio Comp &amp; Mod</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>This course will treat fundamental programming approaches, data structures and mathematical/statistical principles used in designing, computational biology tools and algorithms. Students will learn theoretical principles and gain practical experience.</td>
<td>GR</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>PHY3500</td>
<td>3500</td>
<td>Advanced Physics Lab I</td>
<td>PHY</td>
<td>Physics</td>
<td>2</td>
<td>Statistical analysis of experimental data. Emphasizes experimental design, data analysis, and presentation in report form. Experiments are taken from several major areas of physics, such as optics, spectroscopy, solid state physics, acoustics, nuclear physics and electronics. Integrated Writing course.</td>
<td>UG</td>
<td>LB</td>
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<tr>
<td>Spring 2021</td>
<td>FAS3500</td>
<td>3500</td>
<td>Animal Nutrition</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>Introduction to animal nutrition covering all aspects of nutrition for domestic animals from fundamentals of nutrition through feeds and feeding (digestion, absorption, assimilation, and utilization of nutrients, basic balancing of rations, and identification of feedstuffs).</td>
<td>UG</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>ART6150</td>
<td>6150</td>
<td>Adv Modern/Contemp Art</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9640</td>
<td>9640</td>
<td>Sex &amp; Gender Ident</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>This course provides a sex-positive, interdisciplinary, feminist approach to diverse sexualities (orientations, identities and behaviors), and influences on sexual well-being as well as foundational concepts in serving transgender and gender diverse populations. Students will explore their values/biases and gain comfort and competence in addressing these issues in order to provide basic sex therapy interventions and transgender-affirming therapy consistent with ethical guidelines.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EES6250</td>
<td>6250</td>
<td>Climate Change</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>This lecture course deals with the causes and variations of temperature and precipitation patterns over tens to millions of years, the mechanisms that drive them: air pollution, orbital and solar variation, plate tectonics, etc. It includes the nature of evidence for previous climatic conditions and the bases for predictions of future climate change.</td>
<td>GR</td>
<td>LE</td>
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<td>Spring 2021</td>
<td>PLS4900</td>
<td>4900</td>
<td>Independent Reading</td>
<td>PLS</td>
<td>Political Science</td>
<td>1</td>
<td>Supervised individual readings on selected topics arranged between student and faculty member directing the study. Requires 3.0 GPA. Integrated Writing course.</td>
<td>UG</td>
<td>IS</td>
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<tr>
<td>Spring 2021</td>
<td>SRV4000</td>
<td>4000</td>
<td>Engaged Citizenship Capstone</td>
<td>SRV</td>
<td>Service Learning</td>
<td>3</td>
<td>Culminating experience of the Citizen Scholar Certificate Program. Students design and complete a service-learning project, produce a scholarly paper in connection with the project and compile a portfolio to demonstrate their development as citizens through the Citizen Scholar Certificate program. Project proposals must be approved by the Office of Service-Learning prior to enrollment in the course.</td>
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<td>Course Code</td>
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<td>Prerequisites</td>
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<td>BMB2000</td>
<td>2000</td>
<td>Career Planning in BMB</td>
<td>BMB</td>
<td>Minimum Grade of D or Undergraduate level ENG 3500 Minimum Grade of D</td>
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<td>BMS6550</td>
<td>6550</td>
<td>Advanced Linear Algebra</td>
<td>BMS</td>
<td>Minimum Grade of D and Undergraduate level MTH 1200 Minimum Grade of D</td>
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<td>ED7220</td>
<td>7220</td>
<td>Teaching Writing K-12</td>
<td>ED</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<td>1960A</td>
<td>Yoga</td>
<td>KNH</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<td>CEG3120</td>
<td>3120</td>
<td>Design of Info Tech Sys</td>
<td>CEG</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<td>SW6170</td>
<td>6170</td>
<td>HBSE I</td>
<td>SW</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<td>BIO1050</td>
<td>1050</td>
<td>Biology of Food</td>
<td>BIO</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>ENG6780</td>
<td>6780</td>
<td>Studies TESOL</td>
<td>ENG</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>CEG6750</td>
<td>6750</td>
<td>Information Security</td>
<td>CEG</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>BMS9560</td>
<td>9560</td>
<td>Medical Ultrasions</td>
<td>BMS</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>PN7920</td>
<td>7920</td>
<td>Mechanisms of Cell Death</td>
<td>PN</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>SAA7610</td>
<td>7610</td>
<td>Student Dev Theory</td>
<td>SAA</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>SOC4310</td>
<td>4310</td>
<td>Urban Sociology</td>
<td>SOC</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>PN6200</td>
<td>6200</td>
<td>Neuronal immune Sy Homeostatis</td>
<td>PN</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<td>SW4850</td>
<td>4850</td>
<td>Gero Cert Project</td>
<td>SW</td>
<td>Minimum Grade of D and Undergraduate level ENG 1200 Minimum Grade of D</td>
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<tr>
<td>Spring 2021</td>
<td>SPN3700</td>
<td>3700</td>
<td>Internship in Spanish</td>
<td>SPN</td>
<td>Spanish</td>
<td>3</td>
<td>Supervised use of Spanish in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum time commitment 135 hours a semester, including a minimum of 120 hours of on-site work. Senior standing and advisor permission required.</td>
<td>UG</td>
<td>IN</td>
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<tr>
<td>Spring 2021</td>
<td>OL2010</td>
<td>2010</td>
<td>Leading Self</td>
<td>OL</td>
<td>Organizational Leadership</td>
<td>3</td>
<td>Overview of the personal and professional skills and dispositions necessary for effective leadership in an organizational setting.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR4420</td>
<td>4420</td>
<td>Cri Care Across Lifespan</td>
<td>NUR</td>
<td>Nursing</td>
<td>1</td>
<td>Focuses on critical reasoning in the care of individuals across the lifespan experiencing acute physiological crisis. Integrates concepts from previous courses with concepts of critical care nursing in a variety of clinical settings.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ECO5700</td>
<td>5700</td>
<td>Persnl Finance Ed Teach</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>2</td>
<td>This course is designed to help teachers with little economic and financial literacy education discover resources and techniques available to teach children in grades 6-12. Topics include scarcity, decision making, budgeting, banking, credit, investing, and insurance. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>LL</td>
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<tr>
<td>Spring 2021</td>
<td>CHM3120L</td>
<td>3120L</td>
<td>Quant Analysis Lab</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3</td>
<td>Experimental methods of analysis. Practical applications of lecture material presented in CHM 3120.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4550</td>
<td>4550</td>
<td>Politics of Iraq</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>traces recent political history of Iraq since its formation in 1920s. Examines reasons for recent war and implications for Iraq's political future. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS6650</td>
<td>6650</td>
<td>Computer App in Music</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>Study of computer technology and music software applications. Emphasis is placed upon using MIDI for electronic score notation, sequencing, and basic coursework design.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>FR4420</td>
<td>4420</td>
<td>17th &amp; 20th Cent Theatre</td>
<td>FR</td>
<td>French</td>
<td>3</td>
<td>Themes of destiny and diversity in 17th- and 20th-century French drama. Analysis of plays and their socio-historical context. Playwrights such as Corneille, Racine, Molière, Giraudoux, Sartre, Beckett, and Ionesco. Taught in French. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ME6585</td>
<td>6585</td>
<td>Natural Gas Prod EGR</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Students will be able to demonstrate a knowledge of natural gas production and the associated separation processes to extract gas from oil, recognize the properties of natural gas, perform design calculations involved in production, development and distribution of natural gas, demonstrate a knowledge of effluent treatments in natural gas production and demonstrate a knowledge of the environmental impacts of natural gas.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ENG3010</td>
<td>3010</td>
<td>Topics in Reading</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Approaches and topics in the field of Literary Study.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EGR7910</td>
<td>7910</td>
<td>MEIE Team Project I</td>
<td>EGR</td>
<td>Engineering</td>
<td>3</td>
<td>First semester of team project for Master in Engineering Innovation and Entrepreneurship program. Students identify, assess and prioritize innovation and entrepreneurship opportunities; form diverse multi-cultural teams with engineering and business expertise; interact with entrepreneurs; gain technical expertise; expand their understanding of the business environment.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>KNH1780B</td>
<td>1780B</td>
<td>Weight Training</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Weight Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
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<tr>
<td>Spring 2021</td>
<td>MTE6880</td>
<td>6880</td>
<td>Ind Reading Math Stat Ed</td>
<td>MTE</td>
<td>Mathematics Teacher Education</td>
<td>1</td>
<td>Selected topics from the research literature on a particular topic in mathematics and statistics education.</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>Spring 2021</td>
<td>ME4220</td>
<td>4220</td>
<td>Mech Sys Mdl &amp; Dsgn</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>This course will teach students how to model complex mechanical systems as a set of simple, linear or nonlinear components for the purpose of design. Students will be introduced to modern computational tools.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>BIO1120R</td>
<td>1120R</td>
<td>Genes &amp; Cells Recitation</td>
<td>BIO</td>
<td>Biology</td>
<td>0</td>
<td>Optional recitation for BIO 1120. Meetings provide just-in-time support for the course's laboratory reports and on-line quizzes.</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Category</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Type</td>
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<td>ART2580</td>
<td>2580</td>
<td>Intro to Digital Photo</td>
<td>ART</td>
<td>Art</td>
<td>3 Explore the black and white photographic materials and camera techniques. Investigation of aesthetic possibilities of the media. Development of personal concepts and aesthetic expression in photography. This course has a fee that is non-refundable once the term begins.&lt;br&gt;&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level ART 2070 Minimum Grade of D&lt;br&gt;&lt;br&gt;UG LB Lab</td>
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<td>ED7902</td>
<td>7902</td>
<td>Current Topics &amp; Trends in Edu</td>
<td>ED</td>
<td>Education</td>
<td>1 Centers on the effective implementation of various instructional practices, the evidence behind the practices, and their practical application in PK-12 classrooms based on current trends in education.&lt;br&gt;&lt;br&gt;GR SE Seminar</td>
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<tr>
<td>EC3260</td>
<td>3260</td>
<td>Econ Poverty &amp; Discrim</td>
<td>EC</td>
<td>Economics</td>
<td>3 Analysis of economic causes, effects, and cures for poverty and discrimination. Study of trends, economic explanations, and current programs and legislation.&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<td>BIO6600L</td>
<td>6600L</td>
<td>Population Genetics Lab</td>
<td>BIO</td>
<td>Biology</td>
<td>0 Required laboratory for BIO 6600.&lt;br&gt;&lt;br&gt;GR LB Lab</td>
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<td>BME7950</td>
<td>7950</td>
<td>Thesis Research in BME</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>1 M.S. Thesis Research in Biomedical Engineering&lt;br&gt;&lt;br&gt;GR IS Independent Study</td>
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<tr>
<td>CEG4750</td>
<td>4750</td>
<td>Information Security</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3 A comprehensive study of security vulnerabilities in information systems and the basic techniques for developing secure applications and practicing safe computing. Topics include: Conventional encryption; Data Encryption Standard; Advanced Encryption Standard; Hashing functions and data integrity; Basic Number Theory; Public-key encryption (RSA); Elliptic Curve Cryptography (ECC); Digital signature; Security standards and applications; Access Control; Management and analysis of security; Intrusion Detection; Malicious Software; Legal and Ethical Issues in Security.&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<tr>
<td>EES6660</td>
<td>6660</td>
<td>OSHA Compliance</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>1 Intended for persons having management responsibility for occupational safety and health; this course provides practical application of the theories of safety and health law, and suggestions for their real world application.&lt;br&gt;&lt;br&gt;GR LE Lecture</td>
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<tr>
<td>GER3320</td>
<td>3320</td>
<td>Survey of German Lit II</td>
<td>GER</td>
<td>German</td>
<td>3 Historical survey of German literature from its beginning to the present, including Classicism, Romanticism, Poetic Realism, and Modern Period. Taught in German.&lt;br&gt;&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D and (Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D)&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<tr>
<td>CS9920</td>
<td>8920</td>
<td>Independent Study in CS</td>
<td>CS</td>
<td>Computer Science</td>
<td>1 Independent study in computer science.&lt;br&gt;&lt;br&gt;GR IS Independent Study</td>
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<tr>
<td>PLS4580</td>
<td>4580</td>
<td>Latin American Politics</td>
<td>PLS</td>
<td>Political Science</td>
<td>3 Politics in Central America, South America and the Caribbean, focusing on political and economic development. Considers major debates in comparative politics on a variety of issues, including democracy and democratization. Integrated Writing course.&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<td>PLS6850</td>
<td>6850</td>
<td>Chinese Foreign Policy</td>
<td>PLS</td>
<td>Political Science</td>
<td>3 Examine development and current practices of Chinese foreign policy. Special attention given to China-U.S. relations, as well as China's role in international and regional organizations.&lt;br&gt;&lt;br&gt;GR LE Lecture</td>
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<tr>
<td>MUS4480</td>
<td>4480</td>
<td>Classic and Romantic Music</td>
<td>MUS</td>
<td>Music</td>
<td>3 Study of music and critical analysis of representative works from major composers of Classical and Romantic music.&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<td>IHE6330</td>
<td>6330</td>
<td>Egr in Occup Sfty &amp; Hlth</td>
<td>IHE</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>3 Discusses and demonstrates the role and responsibility of engineers in occupational safety and health related issues. Focuses on human factors engineering design principles as a proactive approach for controlling occupational injuries.&lt;br&gt;&lt;br&gt;GR LE Lecture</td>
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<tr>
<td>ART3660</td>
<td>3660</td>
<td>Beg Printmkg: Relief</td>
<td>ART</td>
<td>Art</td>
<td>3 Exploration of printmaking, stressing relief methods using wood and linoleum. Exploration of aesthetic possibilities of the media. This course has a fee that is non-refundable once the term begins.&lt;br&gt;&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level ART 2280 Minimum Grade of D&lt;br&gt;&lt;br&gt;UG LB Lab</td>
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<tr>
<td>PSY2520</td>
<td>2520</td>
<td>Forensic Psychology</td>
<td>PSY</td>
<td>Psychology</td>
<td>3 Examines applications of psychology to law and the U.S. legal system. Address issues such as the history of forensic psychology, research methods, criminal behaviors such as juvenile delinquency, eyewitness testimony, profiling, jury decision-making, and sentencing&lt;br&gt;&lt;br&gt;UG LE Lecture</td>
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<td>OIS2180</td>
<td>2180</td>
<td>Office Tech Trends</td>
<td>OIS</td>
<td>Office Information Systems</td>
<td>3 Latest information on office standards and legislative updates that impact office support professionals.&lt;br&gt;&lt;br&gt;UG LL Lecture/Lab Combination</td>
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<tr>
<td>MUA2110</td>
<td>2110</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>1 Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.&lt;br&gt;&lt;br&gt;UG IS Independent Study</td>
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<tr>
<td>BME7930</td>
<td>7930</td>
<td>Non-Thesis Resrch in BME</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>1 M.S. Non-Thesis Research in Biomedical Engineering&lt;br&gt;&lt;br&gt;GR IS Independent Study</td>
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<td>EGR1010L</td>
<td>1010L</td>
<td>Intr Math Egr Appl Lab</td>
<td>EGR</td>
<td>Engineering</td>
<td>0 Required laboratory for EGR 1010. Integrated Writing course.&lt;br&gt;&lt;br&gt;UG LB Lab</td>
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<tr>
<td>Spring</td>
<td>DAN2010</td>
<td>2010 Ballet II</td>
<td>3</td>
<td>UG</td>
<td>Studio</td>
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<td>ART3970</td>
<td>Intro to Museum Studies</td>
<td>3</td>
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<td>BME3520L</td>
<td>Microcomputers for BME Lab</td>
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<td>PLS4500</td>
<td>Political Anthropology</td>
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<td>STT968</td>
<td>Graduate Research</td>
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<td>TH4330</td>
<td>Comp Graphics Theatre II</td>
<td>3</td>
<td>ST</td>
<td>Studio</td>
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<td>PSY4040</td>
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<td>SOM702</td>
<td>Year 4 Medical Study</td>
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<td>COM2460</td>
<td>Organizational Comm</td>
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<td>PLS6210</td>
<td>Am Constitutional Pols</td>
<td>3</td>
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<td>EE3310L</td>
<td>Devices and Circuits Lab</td>
<td>1</td>
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<td>Lecture</td>
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<td>IT3210</td>
<td>Prim of Package Design</td>
<td>3</td>
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<td>Lecture/Lab Combination</td>
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<td>HEA9220</td>
<td>Law of Higher Education</td>
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<td>Abnormal Psychology</td>
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<td>ED4310</td>
<td>MCE Internship (I-Methods)</td>
<td>1</td>
<td>PR</td>
<td>Practicum</td>
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<td>PTX4006</td>
<td>Case Studies in CBRN Defense</td>
<td>3</td>
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<td>GER4060</td>
<td>Renaissance &amp; Reformatio</td>
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<td>PSI9580</td>
<td>Forensic Intervention</td>
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<td>BMS8720</td>
<td>Mechanisms of Cell Death</td>
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<tr>
<td>Spring 21</td>
<td>MUE4500</td>
<td>4500</td>
<td>Symphonic Band</td>
<td>1</td>
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<td>UG</td>
<td>LL</td>
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<td>Music: Ensembles</td>
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<td>Lecture</td>
<td>Combination</td>
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<td>Spring 21</td>
<td>EES6270</td>
<td>6270</td>
<td>Process Geomorphology</td>
<td>3</td>
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<td>GR</td>
<td>LE</td>
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<td></td>
<td>EES Earth &amp; Environmental Sciences</td>
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<td>Lecture</td>
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<td>Spring 21</td>
<td>KNH1570A</td>
<td>1570A</td>
<td>Soccer: Outdoor</td>
<td>1</td>
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<td>UG</td>
<td>LB</td>
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<td>KNH Kinesiology &amp; Health</td>
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<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>BIO4110L</td>
<td>4110L</td>
<td>The Aquatic Environment Lab</td>
<td>0</td>
<td>Required laboratory for BIO 4110.</td>
<td></td>
<td>UG</td>
<td>LB</td>
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<tr>
<td>Spring 21</td>
<td>IHE7820</td>
<td>7820</td>
<td>Engr Supply Chain Sys</td>
<td>3</td>
<td>Advanced topics in the design of supply chain systems and planning for their operations. Emphasis on model development and solution using operations research techniques. Applications in forecasting, facility location, warehouse design, and integrated distribution planning.</td>
<td>GR</td>
<td>LE</td>
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<td>IHE Industrial &amp; Hum Fac Engr</td>
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<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>CNL9510</td>
<td>9510</td>
<td>Clin Assess in Cnl Prac</td>
<td>3</td>
<td>Supervised clinical practice in the administration of mental health assessment instruments. Emphasizes advanced methods of administering and interpreting standardized tests. Includes use of assessment procedures in diagnosis and treatment planning.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 21</td>
<td>OIS2400</td>
<td>2400</td>
<td>Independent Study</td>
<td>1</td>
<td>Directed study on selected topics.</td>
<td></td>
<td>UG</td>
<td>IS</td>
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<tr>
<td>Spring 21</td>
<td>NEU4040</td>
<td>4040</td>
<td>Sr Cap Neuro Exp Des</td>
<td>2</td>
<td>Senior neuroscience majors will develop a grant proposal on a neuroscience topic that could push the field forward. Students will prepare a written grant proposal and deliver an oral presentation summarizing their proposal. Integrated Writing course.</td>
<td>UG</td>
<td>IS</td>
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<tr>
<td>Spring 21</td>
<td>ME3600</td>
<td>3600</td>
<td>Exp. Meas. and Instr.</td>
<td>3</td>
<td>Techniques, equipment, and measurement procedures used by Mechanical Engineers: writing lab reports, performing data acquisition, applying statistics to experimental data, signal analysis, measurement system analysis, etc. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 21</td>
<td>PHY6820</td>
<td>6820</td>
<td>Electromagnetic Th. II</td>
<td>4</td>
<td>Understanding of formal Electromagnetic Theory including application of multipole treatments in Electro- and Magneto-statics, applications of relativity, and application of Maxwell's equations to particular physical systems.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 21</td>
<td>MUE6770</td>
<td>6770</td>
<td>Chamber Orchestra</td>
<td>1</td>
<td>Instrumental ensemble, consisting primarily of strings and varying combinations of wind and percussion instruments, devoted to the study and performance of music written for that medium.</td>
<td>GR</td>
<td>LL</td>
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<tr>
<td>Spring 21</td>
<td>ANT7000</td>
<td>7000</td>
<td>Human Anatomy Instruct</td>
<td>1</td>
<td>Overview of gross anatomy, histology, neuroanatomy, embryology, and educational theory that enables students to be more effective in the teaching of undergraduate courses in anatomy. For first-year graduate teaching assistants in the Department of Anatomy only.</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>Spring 21</td>
<td>OIS1280</td>
<td>1280</td>
<td>Database Applications</td>
<td>2</td>
<td>Create, manipulate, and maintain databases and generate queries and reports for office applications.</td>
<td>UG</td>
<td>LL</td>
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<tr>
<td>Spring 21</td>
<td>EE6540L</td>
<td>6540L</td>
<td>VLSI Design Lab</td>
<td>1</td>
<td>Work station based experience designing asic devices for evaluation and testing.</td>
<td>GR</td>
<td>LB</td>
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<tr>
<td>Spring 21</td>
<td>ED6750</td>
<td>6750</td>
<td>AYA: Int Math: C&amp;M II</td>
<td>3</td>
<td>This course will examine curriculum, materials, and teaching methods for secondary mathematics teaching. This includes course development, assessment, differentiation, technology, and content for probability and statistics courses.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 21</td>
<td>PPH7910</td>
<td>7910</td>
<td>Independent Study</td>
<td>1</td>
<td>Independent study of topics in community health.</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>Spring 21</td>
<td>PLS4881</td>
<td>4881</td>
<td>Diplomacy &amp; Negotiation</td>
<td>3</td>
<td>Topics include power and leverage; negotiation strategies; mediation and third-party involvement; and ratification and implementation of agreements. Provides an analytical understanding of how negotiation works, and some level of proficiency and comfort in the practice of negotiation. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
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<tr>
<td>Spring 21</td>
<td>ED4590</td>
<td>4590</td>
<td>Classroom Mgt &amp; Org</td>
<td>3</td>
<td>The study and application of classroom management and organizational models and discussion of research, practice, and innovation in the field of classroom management and organization. Integrated writing course.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 21</td>
<td>ANT7000</td>
<td>7000</td>
<td>Human Anatomy Instruct</td>
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<td>EE6540L</td>
<td>6540L</td>
<td>VLSI Design Lab</td>
<td>1</td>
<td>Work station based experience designing asic devices for evaluation and testing.</td>
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<td>AYA: Int Math: C&amp;M II</td>
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<td>This course will examine curriculum, materials, and teaching methods for secondary mathematics teaching. This includes course development, assessment, differentiation, technology, and content for probability and statistics courses.</td>
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<td>Independent Study</td>
<td>1</td>
<td>Independent study of topics in community health.</td>
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<td>PLS4881</td>
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<td>The study and application of classroom management and organizational models and discussion of research, practice, and innovation in the field of classroom management and organization. Integrated writing course.</td>
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<td>Spring 2021</td>
<td>MUE4970</td>
<td>4.970</td>
<td>Paul L. Dunbar Chorale</td>
<td>MUE</td>
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<td>EDS3400</td>
<td>3.000</td>
<td>Curriculum &amp; Materials</td>
<td>EDS</td>
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<td>Intermediate Greek II</td>
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<td>Year 1 Medical Study</td>
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<td>Undergrad Practicum: Multi-Age</td>
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<td>MUA3420</td>
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<td>SCM7930</td>
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<td>SC Ops and Control</td>
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<td>Business Spanish II</td>
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<td>ED7990</td>
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<td>Adv Studies Seminar I</td>
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<td>ATR6400</td>
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<td>BMB3850</td>
<td>3.850</td>
<td>Biochem Lab</td>
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<td>NUR7552</td>
<td>7.552</td>
<td>Practicum for PCNP</td>
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<td>FAS2120</td>
<td>2.120</td>
<td>Food Proc Unit Op Lab</td>
<td>FAS</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>MIL3020</td>
<td>0.300</td>
<td>Applied Team Leadership</td>
<td>MIL</td>
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<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>HST7830</td>
<td>7.830</td>
<td>Topics in Public History</td>
<td>HST</td>
<td>LE</td>
<td>Lecture</td>
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<td>ME4680</td>
<td>4.680</td>
<td>Experimental Nanoscience</td>
<td>ME</td>
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<tr>
<td>ED6410</td>
<td>6410</td>
<td>MCE: Student Teaching</td>
<td>Education</td>
<td>8</td>
<td>Teacher candidates are assigned to a school for intensive teaching experience in grades 4-9 under the direct supervision of an experienced classroom teacher.</td>
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<tr>
<td>MISS150</td>
<td>3150</td>
<td>Data and Info Mgmt</td>
<td>Management Information Systems</td>
<td>3</td>
<td>Concepts, principles and data models of managing organizational data. Extensive experience in developing data models, applying relational database software, creating and using complex queries using Structured Query Language (SQL). Build custom multi-tier database applications using a web application language and a commercial database system.</td>
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<tr>
<td>ENG4300</td>
<td>4300</td>
<td>Studies in American Lit</td>
<td>English</td>
<td>3</td>
<td>Intensive study of American literary history and/or the work of individual American writers. Intended to develop an understanding of literature within the contexts of the author's life, literary production, and historical background. Integrated writing course.</td>
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<tr>
<td>EDL8340</td>
<td>8340</td>
<td>Coaching and Mentoring</td>
<td>Educational Leadership</td>
<td>3</td>
<td>Developing knowledge, skills, and dispositions necessary for school leaders to provide effective coaching and mentoring focused on improving teaching and learning for all students.</td>
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<tr>
<td>BIO4950</td>
<td>4950</td>
<td>Senior Honors Research</td>
<td>Biology</td>
<td>1</td>
<td>Independent research working closely with a faculty sponsor on the formulation and execution of a research project and thesis preparation. Acceptance into the Departmental Honors Program required.</td>
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<tr>
<td>PSY4330</td>
<td>4330</td>
<td>Personality Psych Cap</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on personality, including theory, research, and application. Integrated writing course.</td>
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<tr>
<td>ED4510</td>
<td>4510</td>
<td>AYA ILA Methods</td>
<td>Education</td>
<td>3</td>
<td>Provides developing professional educators with advanced discussion and practice in the teaching/learning of grades 7-12 language arts.</td>
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<tr>
<td>PSY6910</td>
<td>6910</td>
<td>Psychobio of Stress Cap</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on the psychobiology of stress.</td>
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<tr>
<td>EC7240</td>
<td>7240</td>
<td>Develmt of Ec Thought</td>
<td>Economics</td>
<td>3</td>
<td>Historical development of economic thought and philosophies. Department Managed Prerequisite(s): Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5010 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D;&lt;br&gt;Department Managed Prerequisite(s): Graduate level ME 5120 Minimum Grade of D;&lt;br&gt;Department Managed Prerequisite(s): Graduate level ME 5120 Minimum Grade of D;</td>
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<tr>
<td>ME6140</td>
<td>6140</td>
<td>Mechanical Design I</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Fundamental concepts in design for both static and fatigue loading, with application to selected mechanical components and systems. Department Managed Prerequisite(s): Graduate level ME 5120 Minimum Grade of D;</td>
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<tr>
<td>EE7350</td>
<td>7350</td>
<td>Wireless Comm Techniques</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>The goal of this course is to provide students with a comprehensive and in-depth understanding of the frontier of modern wireless communication technologies. Topics include: uniqueness and difficulty of wireless communication system design, wireless communication channel and propagation model, modulation and demodulation techniques for mobile communication, multiple access technologies, wireless communication system simulation, etc. Department Managed Prerequisite(s): Graduate level EE 7610 Minimum Grade of D and Undergraduate level EE 4210 Minimum Grade of D and Undergraduate level EE 4210L Minimum Grade of D or (Graduate level EE 6210 Minimum Grade of D and Graduate level EE 6210L Minimum Grade of D);</td>
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<tr>
<td>FAS2020</td>
<td>2020</td>
<td>Intro Food Science Lab</td>
<td>Food and Agricultural Systems</td>
<td>1</td>
<td>A study of food properties including physical, chemical, microbiological, functional and sensory characteristics.</td>
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<tr>
<td>FAS2350</td>
<td>2350</td>
<td>Food Plant San and HACCP</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>Principles and practices required to keep the food plant free from potential hazards to human health. Students will learn how to develop and maintain a food safety hazard analysis and critical control points (HACCP) plan.</td>
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<tr>
<td>ED4600</td>
<td>4600</td>
<td>AYA/MA Assess in Ed</td>
<td>Education</td>
<td>3</td>
<td>The design implementation, and integration of traditional and alternative assessments in the classroom. Additionally, the analysis of data and the data-based decision making process.</td>
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</tr>
<tr>
<td>EDL7740</td>
<td>7740</td>
<td>Analysis of Teaching</td>
<td>Educational Leadership</td>
<td>3</td>
<td>Opportunities for analysis of teaching through the exploration of instructional methodologies, critical theory related to teaching, and strategies for continual improvement.</td>
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<tr>
<td>PTX6003</td>
<td>6003</td>
<td>Intro to Pharmacology</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>This course provides an introduction to basic concepts in drug action. Students will become acquainted with the types of pharmacological agents, their general mechanisms for influencing cell behavior, the duration of effective action, and the vocabulary and delivery of pharmacological agents.</td>
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<tr>
<td>EES7810</td>
<td>7810</td>
<td>MST Project</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Students develop an independent capstone science or education research project.</td>
<td></td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>EES6380</td>
<td>6380</td>
<td>Seismic Interpretation</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>4</td>
<td>Students learn the theory and practice of seismic reflection data interpretation. Principles of seismic reflection data interpretation, as well as pitfalls, are examined in the context of both structural styles and stratigraphic settings. The student will gain hands-on experience with industry standard software packages.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB4010</td>
<td>4010</td>
<td>Topics in BMB</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>0.5</td>
<td>Review of current literature or current research techniques in Biochemistry and Molecular Biology.</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IDL7150</td>
<td>7150</td>
<td>Digital Professional Development</td>
<td>IDL</td>
<td>Instructional Design &amp; Learning</td>
<td>3</td>
<td>Students will use elements of instructional design and learning theory to create multimedia professional development materials.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG1050</td>
<td>1050</td>
<td>Classroom Comm for ITAs</td>
<td>ENG</td>
<td>English</td>
<td>2</td>
<td>Introduction to effective communication skills for the classroom, emphasizing oral proficiency, teaching skills, and culture of the American classroom. Placement based on performance on the Wright State Oral Proficiency Test for International Teaching Assistants.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8310</td>
<td>8310</td>
<td>Cognitive Systems Engin.</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>The role of human factors in system design is examined from a cognitive systems engineering perspective. The analytic tools of CSE are explored and applied in design projects.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY1050L</td>
<td>1050</td>
<td>How Things Work Lab</td>
<td>PHY</td>
<td>Physics</td>
<td>1</td>
<td>Experiments illustrating the physics of everyday scientific and technological phenomena and devices, including those associated with the generation, detection, and application of sound, light, and energy.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7990</td>
<td>7990</td>
<td>Thesis</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Graded pass/unsatisfactory.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3610</td>
<td>3610</td>
<td>Sociology of Gender</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Examines how gender is created and negotiated across space and place. Also examines how gender and gender inequality intersect with other social constructs like race, social class, the media, culture, sexuality, work, family, and violence.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8610</td>
<td>8610</td>
<td>Personnel Psychology</td>
<td>PSY</td>
<td>Psychology</td>
<td>4</td>
<td>In-depth review of the psychological basis of personnel selection including recruitment techniques, criterion development, performance evaluation, validity generalization, and instruments. Theoretical, practical, and legal issues are covered.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6320</td>
<td>6320</td>
<td>Neighborhoods &amp; Citirnts.</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Theoretical, methodological, and substantive issues related to neighborhoods and communities in social life. Emphasis on residential differentiation, segregation, neighborhood change, and neighborhood effects.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME7131</td>
<td>7131</td>
<td>Medical Ultrasonics</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Fundamentals of medical ultrasounds: ultrasound generation, propagation, scattering, and attenuation in biological tissue. Traditional A-mode, B-mode, M-mode, Doppler techniques and advanced ultrasound imaging techniques. Past &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level BME 4702 Minimum Grade of D or Graduate level BME 6702 Minimum Grade of D&lt;/b&gt;.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS7060</td>
<td>7060</td>
<td>Research Methods</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Focuses on different aspects of policy evaluation by obtaining facts and analyzing information on the impact of public programs. Deals with controversy over the use of objective performance indicators and citizen surveys as program performance measures.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI3540</td>
<td>3540</td>
<td>Sign to English: Voice Interp</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Knowledge and competencies for interpreting a variety of texts from signed modes to spoken English, using correct English grammar and syntax, while choosing appropriate vocabulary and register. Clarification and correction, peer review and self analysis strategies are developed.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2730</td>
<td>2730</td>
<td>Nutrient Management</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>Fundamental concepts of soil sampling, soil test interpretation, and development of nutrient recommendations for crop production. Topics include common fertilizers and other nutrient sources, application rates to satisfy crop production requirements, and application methods and timing of nutrients in various forms.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4420</td>
<td>4420</td>
<td>Microwave Egr I</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Transmission line theory and application, wave propagation in rectangular waveguides, microwave network analysis, matching network, design of microwave filter and resonator, and introduction of electromagnetic compatibility.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH4990</td>
<td>4990</td>
<td>Undergraduate Research</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>1</td>
<td>Undergraduate biomedical research and seminar. Students will participate in hands-on research as well as reading primary literature, presenting scientific talks, and exploring the social and ethical implications of scientific research.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH4550</td>
<td>4550</td>
<td>Seminar Sport Science</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Monitors and supports the professional progress of sports science program students. Enhances sports science students' preparation for a certification exam and career development.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AFS4040</td>
<td>4040</td>
<td>African Diaspora</td>
<td>AFS</td>
<td>Afr Afr Amer Studies</td>
<td>3</td>
<td>Examination of the evolution and development of the African diaspora in an international context. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Course</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Type</td>
<td>Description</td>
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<tr>
<td>SOC5700</td>
<td>5700</td>
<td>Criminology</td>
<td>SOC Sociology</td>
<td>3</td>
<td>Lecture</td>
<td>Provides an analysis of major categories of criminal conduct, theories of crime causation, and patterns of criminal activity with particular attention to factors such as class, race, sex, and age.</td>
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<tr>
<td>PTX8002</td>
<td>8002</td>
<td>Principles of Biomed Res</td>
<td>PTX Pharmacology/Toxicology</td>
<td>1</td>
<td>Lecture</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research. PBR provides a lecture and student interactive series designed to introduce students to the basics of biomedical research.</td>
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<tr>
<td>GEO2200</td>
<td>2200</td>
<td>Human Geography</td>
<td>GEO Geography</td>
<td>3</td>
<td>Lecture</td>
<td>Introduction to key themes and perspectives in human geography. Examines social, economic, environmental, and political challenges confronting people and societies. Themes include globalization, nature and sustainability, food and agriculture, political borders, urbanization and development, and other issues pertaining to the livability of the planet.</td>
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<tr>
<td>DOS9990</td>
<td>9990</td>
<td>Org Studies Dissertation</td>
<td>DOS Doctor Org Studies</td>
<td>0.5</td>
<td>Lecture</td>
<td>Doctoral-level independent research and writing related to leadership and organizational studies.</td>
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<tr>
<td>KHN2530</td>
<td>2530</td>
<td>Kinesiology</td>
<td>KHN Kinesiology &amp; Health</td>
<td>3</td>
<td>Lecture</td>
<td>Analysis of muscular interrelationships in basic body movement and principles of mechanics as they relate to fundamental and complex motor skills in physical education activities.</td>
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<tr>
<td>FAS4300</td>
<td>4300</td>
<td>Lean Six Sigma Proc Food</td>
<td>FAS Food and Agricultural Systems</td>
<td>3</td>
<td>Lecture</td>
<td>Lean/Six Sigma principles and practices and implementation of Lean/Six Sigma initiatives in a food manufacturing environment.</td>
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<tr>
<td>SW4740</td>
<td>4740</td>
<td>Child Welfare II</td>
<td>SW Social Work</td>
<td>3</td>
<td>Lecture</td>
<td>Addresses the developmental and permanence needs of children in the child welfare system.</td>
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<tr>
<td>EE7490L</td>
<td>7490L</td>
<td>Antenna Theory &amp; Design Lab</td>
<td>EE Electrical Engineering</td>
<td>0</td>
<td>Lab</td>
<td>Required laboratory for EE 7490.</td>
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<tr>
<td>PSI9610</td>
<td>9610</td>
<td>Consultation</td>
<td>PSI Professional Psychology</td>
<td>3</td>
<td>Lecture</td>
<td>Explores consultation as a core competency for the professional psychologist. Consultation is a planned, collaborative interaction that is an explicit intervention process based on principles and procedures found within psychology and related disciplines in which the psychologist does not have direct control of the change process (NCSPP). The course examines consultation in a variety of business and professional settings.</td>
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<tr>
<td>EC3210</td>
<td>3210</td>
<td>U.S. Economic History</td>
<td>EC Economics</td>
<td>3</td>
<td>Lecture</td>
<td>Analysis of economic, political, social, and cultural changes resulting from industrial advancements and the control over industrial changes exercised by different societies.</td>
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<tr>
<td>ENG7140</td>
<td>7140</td>
<td>WMS: Theory &amp; Literature</td>
<td>ENG English</td>
<td>3</td>
<td>Seminar</td>
<td>Explores gender and other variables of identity (e.g. ethnicity, class, sexuality, religious affiliation, disability) and their relationship to the production/consumption of texts. Readings include literary texts and feminist theory.</td>
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<tr>
<td>SRV2000</td>
<td>2000</td>
<td>Engaged Citizenship</td>
<td>SRV Service Learning</td>
<td>3</td>
<td>Lab</td>
<td>Rights, privileges and responsibilities of citizenship in our democracy and the world. Develops skills for engaged citizenship through community-based activities and service-learning projects. Integrated Writing course.</td>
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<tr>
<td>IHE6810</td>
<td>6810</td>
<td>Prod &amp; Serv Sys</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>Lecture</td>
<td>Explores quantitative techniques as applied to planning and control of systems in production and service industries. Applications include inventory control, scheduling, waiting time &amp; variability management and production/workforce planning.&lt;br&gt;Department Managed Prerequisite(s): Graduate level IHE 6120 Minimum Grade of D and Graduate level IHE 6711 Minimum Grade of D-&lt;br&gt;</td>
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<tr>
<td>HST3100</td>
<td>3100</td>
<td>Survey European History</td>
<td>HST History</td>
<td>3</td>
<td>Lecture</td>
<td>Surveys of European history. Topics vary.</td>
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</tr>
<tr>
<td>ED6260</td>
<td>6260</td>
<td>Literacy Lessons Training I</td>
<td>ED Education</td>
<td>3</td>
<td>Lecture</td>
<td>Teachers certified/licensed in special education, ESL, or bilingual education learn to apply Clay’s literacy processing theory to help students in the population of their specialty to develop effective early reading and writing systems.</td>
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<tr>
<td>PPH7140</td>
<td>7140</td>
<td>Social Networks and Hlth</td>
<td>PPH Population &amp; Public Health</td>
<td>3</td>
<td>Seminar</td>
<td>This course provides an introduction to the major theories, methods, models, and findings of social network analysis research and application with attention to medical and public health topics. While not a methods course, the goal of the course is to introduce scholars to the body of research of social networks and health. The emphasis of the course will be to apply the theory of social networks to practical public health situations through engaging peer-reviewed research and class discussion.</td>
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<tr>
<td>BIO4700</td>
<td>4700</td>
<td>General Entomology</td>
<td>BIO Biology</td>
<td>4</td>
<td>Lecture</td>
<td>Basic biology of insects, including their morphology, physiology, life history, ecology, evolution and taxonomy.</td>
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</tr>
<tr>
<td>BMS9030</td>
<td>9030</td>
<td>Human Neurobiology</td>
<td>BMS Biomedical Sciences</td>
<td>4</td>
<td>Lab</td>
<td>(Also listed as ANT 7310.) Detailed survey of the anatomy and physiology of the major fiber tracts and cell groups of the human central nervous system.</td>
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</tbody>
</table>

Spring 2021
<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Credits</th>
<th>Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>ATR7200</td>
<td>7200</td>
<td>Emergent &amp; Acute Care Lab</td>
<td>ATR</td>
<td>-</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3720</td>
<td>3720</td>
<td>Composition II</td>
<td>MUS</td>
<td>Music</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4140</td>
<td>4140</td>
<td>Mechanical Design I</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR8980</td>
<td>4860</td>
<td>Model UN Seminar</td>
<td>PLS</td>
<td>Political Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4860</td>
<td>4860</td>
<td>Model UN Seminar</td>
<td>PLS</td>
<td>Political Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6190L</td>
<td>6190L</td>
<td>Paleobiology Laboratory</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1900</td>
<td>1900</td>
<td>Internship</td>
<td>CS</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7980</td>
<td>7980</td>
<td>Special Topics in ME</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS3250</td>
<td>3250</td>
<td>Analysis Design Info Sys</td>
<td>MIS</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8590</td>
<td>8590</td>
<td>Topics in Indus/Organiz</td>
<td>PSY</td>
<td>Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7980</td>
<td>7980</td>
<td>Special Topics in ME</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS4260</td>
<td>4260</td>
<td>Public Admin Global Soc</td>
<td>URS</td>
<td>Urban Affairs</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3720</td>
<td>3720</td>
<td>Composition II</td>
<td>MUS</td>
<td>-</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6670</td>
<td>6670</td>
<td>China: Domestic Politics</td>
<td>PLS</td>
<td>Political Science</td>
</tr>
</tbody>
</table>

**EGR8980 Required laboratory for EES 6190.**

3720 Engineering 7200 Educational CS1900 Lecture Applied 7900 3 LL Model UN Music Seminar Experiential learning opportunity with intensive training in research, writing, public speaking and conflict resolution. Culminates at the national collegiate conference in New York simulating the UN. Integrated Writing course.

UG LE Lecture

Spring 2021 ME4140 4140 Mechanical Design I ME Mechanical and Materials Engr 3 Fundamental concepts in design for both static and fatigue loading, with application to selected mechanical components and systems. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of C and Undergraduate level ME 3120 Minimum Grade of D.

UG LE Lecture

Spring 2021 FIN3220 3220 Intro Quantitative Fin FIN Finance 3 Introduction to algorithmic trading and Direct Market Access (DMA) trading strategies. Class participants will analyze market microstructure, order placement and execution tactics used in trading financial assets. Quantitative trading strategies will be discussed in detail. Excel will be used extensively in this course. A background in programming is recommended.

UG LL Lecture/Lab Combination

Spring 2021 CS1900 1900 Internship CS Computer Science 1 Students earn general elective credit for a future internship experience by working in a major related job that provides meaningful work experience to enhance technical skills and promote professional development. Students must complete all of the 2nd year courses as listed in the program model. Minimum of 10 hours per week for each credit hour registered.

UG IN Internship

Spring 2021 EDT8620 8620 Applied Res for HPA EDT Educational Technology 2 Participants research educational technologies used in the health professionals environment. Participants evaluate how the use of the educational technology has had an impact on the health professionals teaching environment.

GR LE Lecture

Spring 2021 EGR8980 8980 Special Topics in EGR EGR Engineering 1

GR LE Lecture

Spring 2021 EES6190L 6190L Paleobiology Laboratory EES Earth & Environmental Sciences 0 Required laboratory for EES 6190.

GR LB Lab

Spring 2021 ABS7900 7900 ABS Graduate Project ABS Applied Behavioral Science 1 Practical application of knowledge gained through courses applied to a capstone experience.

GR IS Independent Study

Spring 2021 MIS3250 3250 Analysis Design Info Sys MIS Management Information Systems 3 Overview of system analysis and design methodologies. Topics include planning, SDLC, project management overview, data, process and logic modeling techniques. Covers design, implementation, specifications, and testing plans.

UG LL Lecture/Lab Combination

Spring 2021 PSY8590 8590 Topics in Indus/Organiz PSY Psychology 2 Seminars with in-depth coverage of special topics in industrial or organizational psychology. Topics vary. Permission of Instructor. May be taken for a letter grade or pass/unsatisfactory.

GR SE Seminar

Spring 2021 ME7980 7980 Special Topics in ME ME Mechanical and Materials Engr 1 Special topics in Mechanical Engineering or Materials Science and Engineering. Topics Vary

GR LE Lecture

Spring 2021 URS4260 4260 Public Admin Global Soc URS Urban Affairs 3 Places American public administration traditions and practices into comparative perspective. Examines the extent to which globalization has affected the practice of public administration around the world and global trends that have become apparent in administrative reform today.

UG LE Lecture

Spring 2021 MIS7200 7200 IS Project Management MIS Management Information Systems 3 IS Project Management encompasses the knowledge, techniques, and tools necessary to manage the development of information systems projects. Leading edge tools, techniques, and concepts will be presented through the course. This course has a fee that is non-refundable once the term begins.

GR LE Lecture

Spring 2021 PLS6670 6670 China: Domestic Politics PLS Political Science 3 Analysis of governmental structures and processes within modern China, emphasizing both elite and mass politics. Overview of the rise of state socialism and examination of some of the key issues in Chinese politics and society today.

GR LE Lecture
<p>| Spring 2021 | NUR7622  | 7622 | Supervision - Psych NP Students II | NUR  | Nursing  | 1 | This course is the second in a sequence that focuses on the role of the psychiatric nurse practitioner as a counselor and the skills necessary to function effectively in that role, with emphasis on treatment modalities. Assertiveness, self-reflection, therapeutic communication, ethics, and professionalism are emphasized with increased focus on clinical reasoning. Advanced practice role development is incorporated. A case-study approach is utilized. Students meet with faculty in small groups. | GR | PR | Practicum |
| Spring 2021 | EC4120  | 4120 | Economic Forecasting | EC  | Economics  | 3 | Techniques and theories used in forecasting. Stresses practical methods and problems. | UG | LE | Lecture |
| Spring 2021 | ECE7400  | 7400 | Research in ECE Topics | ECE  | Education - Early Childhood  | 3 | Research topics, issues and trends in Early Childhood Education using qualitative and action research methods. | GR | LE | Lecture |
| Spring 2021 | NUR2124  | 2124 | Nur for Unlicensed HC | NUR  | Nursing  | 1 | Introduces non-Registered Nurse healthcare personnel to the role of the professional nurse; introduction to nursing theories with emphasis on interprofessional, intraprofessional, and patient-centered communication skills and critical reasoning in the application of nursing process. Includes laboratory and clinical experiences basic to clinical practice in care of adults. This is an integrated writing course. (3 cr didactic; 2 cr clinical total; 2 cr lab total) | UG | LE | Lecture |
| Spring 2021 | ME6540  | 6540 | Solar Thermal Engr. | ME  | Mechanical and Materials Engr  | 3 | Fundamentals of solar radiation and how it can be utilized as a thermal energy source. Solar insolation on a surface, flat plate collectors, concentrating collectors, thermal energy storage, and solar hot water heating will be discussed. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3360 Minimum Grade of D or Undergraduate level ME 5360 Minimum Grade of D&lt;/b&gt; | GR | LE | Lecture |
| Spring 2021 | PLS6450  | 6450 | Adv Crim Investign | PLS  | Political Science  | 3 | Criminal investigative techniques including forensics, evidence, interviews, and interrogations as applied to specific types of crimes. | GR | LE | Lecture |
| Spring 2021 | KNH2620  | 2620 | Nutrition | KNH  | Kinesiology &amp; Health  | 3 | Nutrient and food energy needs of the individual who is physically active. Tissue maintenance, growth and development, immune function, energy development, dietary guidelines and sound dietary practices are investigated. | GR | LE | Lecture |
| Spring 2021 | PSI8300  | 8300 | Interviewing | PSI  | Professional Psychology  | 3 | Process of client designation, problem identification, and functional analysis. Client expectancy, establishing relationships, developing information base for linking, consultation, and referral. Interviewing styles and types. | GR | LE | Lecture |
| Spring 2021 | GR5510  | 5510 | Readings in Greek Drama | GR  | Greek  | 3 | Aeschylus, Sophocles, Euripides, Aristophanes, and Meander. Study of at least one play in Greek. Topics include origin and development of tragedy, drama as a reflection of contemporary events, and development of new comedy. Titles vary. | GR | LE | Lecture |
| Spring 2021 | MGT7060  | 7060 | Organ Dev and Change | MGT  | Management  | 3 | A detailed analysis of planned organizational change. | GR | LE | Lecture |
| Spring 2021 | KNH1120  | 1120 | Canoeing | KNH  | Kinesiology &amp; Health  | 1 | Fundamental skills and knowledge of Canoeing. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins. | UG | LB | Lab |
| Spring 2021 | PPH7830  | 7830 | Ethics of Healthcare Policy | PPH  | Population &amp; Public Health  | 3 | This course is an introduction to the development of ethical policies for healthcare institutions. The course will focus on major laws and U.S. Supreme Court decisions affecting health care and the protection of human research subjects. In addition, the course will describe how ethical considerations relate to costs, managed care, resource allocation, and institutional policies. The course concludes with a student-specific capstone project. &lt;b&gt;Department Managed Prerequisite: Graduate level PPH 7810 Minimum Grade of D&lt;/b&gt; | GR | LE | Lecture |
| Spring 2021 | PHL3020  | 3020 | Medieval Philosophy | PHL  | Philosophy  | 3 | Introduction to medieval philosophy and some of its most important representative thinkers, including Anselm, Abelard, Aquinas, John Duns Scotus, and William of Ockham. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | ME6870L  | 6870L | Machining Lab | ME  | Mechanical and Materials Engr  | 0 | Required laboratory for ME 6870. | GR | LB | Lab |
| Spring 2021 | LDR7200  | 7200 | Emerging Issues Leadership | LDR  | Leadership  | 3 | Focuses on critical analysis of emerging, contemporary leadership issues. Students apply a broad range of current leadership literature to the research, development, and analysis of case studies. | GR | LE | Lecture |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
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<tr>
<td>Spring 2021</td>
<td>BME6450</td>
<td>6450 Tissue Eng &amp; Regen Med BME Biomedical Engineering</td>
<td>3</td>
<td>Principles and underlying strategies for employing selected cells, biomaterial scaffolds, soluble regulators or their genes, and mechanical loading and culture conditions, for the regeneration of tissues and organs. Methods for fabricating tissue-engineered products and devices under development and currently in clinical use. &lt;br&gt;Department Managed Prerequisite(s): Undergraduate level BME 4440 Minimum Grade of D or Graduate level BME 6440 Minimum Grade of C and (Undergraduate level ANT 2120 Minimum Grade of D or Undergraduate level ANT 3120 Minimum Grade of D or Graduate level ANT 5120 Minimum Grade of C)&lt;br&gt;Course may accommodate disabled students when appropriate.</td>
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<td>Spring 2021</td>
<td>REL3450</td>
<td>3450 Daoism REL Religion 3</td>
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<td>Survey of the various expressions of Daoism in Chinese religious and intellectual history. Includes classical Daoist writings and contemporary expressions of Daoism.</td>
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<td>Spring 2021</td>
<td>BMS8620</td>
<td>8620 Human Physiology BMS Biomedical Sciences 4</td>
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<td>(Also listed as P&amp;N 6100.) An overview of human/mammalian organ physiology. Fundamental mechanisms and the experimental basis for current understanding is emphasized. Prerequisite: Introductory biology, chemistry, physics, or permission of instructor.</td>
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<td>Spring 2021</td>
<td>MUS4420</td>
<td>4420 Pedagogy MUS Music 1</td>
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<td>The goal for the course is to make students familiar with basic concepts and practice in program evaluation. The objectives of this course are to teach students about key concepts in program evaluation including program logic models and to provide students with an opportunity to apply their skills by working on a program evaluation.</td>
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<tr>
<td>Spring 2021</td>
<td>SPN4810</td>
<td>4810 Independ Read Adv Studen SPN Spanish 3</td>
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<td>Topics vary. Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D&lt;br&gt;Course may accommodate disabled students when appropriate.</td>
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<td>Spring 2021</td>
<td>TMG2800</td>
<td>2800 Small Business Mgt TMG Technical Management 3</td>
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<td>Stresses business management functions important to small businesses, including single ownership, partnership, incorporation, capitalization and financing requirements, legal requirements, production, and marketing arrangements.</td>
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<td>Spring 2021</td>
<td>COM2410</td>
<td>2410 Small Group Com COM Communication 3</td>
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<td>Explores the fundamentals of group formation, communication, and processes, including conflict resolution, leadership, problem-solving and decision-making. Emphasis on comprehension of theoretical fundamentals as well as skill development.</td>
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<td>KNH1570</td>
<td>1570 Soccer: Outdoor KNH Kinesiology &amp; Health 1</td>
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<td>Fundamental skills and knowledge of Soccer: Outdoor. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>8210 App Psych Theory for DL EDT Educational Technology 3</td>
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<td>Introduction to multimedia learning theory and how theory can be integrated into instructional design.</td>
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<td>NUR7201</td>
<td>7201 Acute Adult Hlth Prob I NUR Nursing 8</td>
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<td>Focus is on complex symptom management related to acute and emergent physiological alterations in renal, cardiovascular, pulmonary, and integumentary function, along with multisystem disorders. Health promotion, maintenance and restoration are emphasized with risk assessment and prevention. Pharmacological management of complex symptomatology and advanced role development are incorporated.</td>
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<td>Work toward completion of thesis research, completion of written thesis or completion of an internship or residency program.</td>
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<td>MUA3120</td>
<td>3120 Applied Music MUA Music: Applied Music 1</td>
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<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
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<td>6500 Social Psych Cap PSY Psychology 3</td>
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<td>Communication-intensive seminar integrating knowledge on Social Psychology. Topic will vary by title.</td>
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<td>ME6700</td>
<td>6700 Structure &amp; Prpts Maths ME Mechanical and Materials Engr 3</td>
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<td>Effect of microstructure, phase equilibrium, and processing on properties of structural materials including metallic alloys, polymers, and composites. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and Undergraduate level MTH 2350 Minimum Grade of D and Undergraduate level MTH 2320 Minimum Grade of D&lt;br&gt;Course may accommodate disabled students when appropriate.</td>
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<td>Spring 2021</td>
<td>ATH3730</td>
<td>3730 Methods in Hum Osteology ATH Anthropology 3</td>
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<td>This course will explore the anthropological methodology of human osteology, or the study of human skeletal materials.</td>
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<td>Congress Dist Internship</td>
<td>PLS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3050L</td>
<td>3.050</td>
<td>Animal Physiology Lab</td>
<td>BIO</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHIL4810</td>
<td>4.810</td>
<td>Independent Study</td>
<td>PHIL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GR6810</td>
<td>6.810</td>
<td>Ind Reading in Greek</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS7330</td>
<td>7.330</td>
<td>Analytical Techniques I</td>
<td>MUS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENGS510</td>
<td>3.510</td>
<td>Content Writing Pedagogy</td>
<td>ENG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART6170</td>
<td>6.170</td>
<td>Adv St Non Western Art</td>
<td>ART</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH7120</td>
<td>7.120</td>
<td>Motor Dev: Low Incidence</td>
<td>KNH</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3850</td>
<td>3.850</td>
<td>Tropical Ecology</td>
<td>BIO</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PN7760</td>
<td>7.760</td>
<td>Interacellular Comm</td>
<td>PN</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4750</td>
<td>4.750</td>
<td>Mat. Characterization</td>
<td>ME</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN6710</td>
<td>6.710</td>
<td>Spanish As a World Lang</td>
<td>SPN</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7710</td>
<td>7.710</td>
<td>Ldship Schl Improvement</td>
<td>EDL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>COM1010</td>
<td>1.010</td>
<td>Essential Public Address</td>
<td>COM</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED4090</td>
<td>4.090</td>
<td>Lit Assess Intervention</td>
<td>ED</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY7030</td>
<td>7.030</td>
<td>Personality Structure</td>
<td>PSY</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI8110</td>
<td>8.110</td>
<td>Cognitive Assessment</td>
<td>PSI</td>
</tr>
<tr>
<td>Term</td>
<td>Code</td>
<td>Credits</td>
<td>Department</td>
<td>Title</td>
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</tr>
<tr>
<td>Spring 21</td>
<td>MUE4450</td>
<td>4450</td>
<td>Collegium</td>
<td>Collegium Musicum is the generic term for an instrumental and</td>
</tr>
<tr>
<td>Spring 21</td>
<td>REL3640</td>
<td>3640</td>
<td>Religion &amp; Pol in Amer</td>
<td>Examination of both the historical and the contemporary relation between religion and politics in the United States, with special reference to the legal principle of church/state separation. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ASM8990</td>
<td>8990</td>
<td>Aerosom</td>
<td>Under supervision of an advisor, students choose research problems, prepare bibliographical searches, plan experimental protocol, and conduct experimentation. A full report, constituting a thesis, is written and defended before a graduate committee.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED7070</td>
<td>7070</td>
<td>Math Inst Grades 4-6</td>
<td>Curriculum and materials for teaching middle level mathematics pertinent to the Ohio's New Learning Standards with emphasis on content, developmentally appropriate pedagogy, curriculum and materials suitable for teaching fourth, fifth and sixth grade mathematics education.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSI9170</td>
<td>9170</td>
<td>Career Assessment</td>
<td>Reviews major theories of career development and formal and informal career assessment instruments with emphasis on diverse populations; develops skills to administer and interpret career assessment instruments and write integrated reports.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>FR6530</td>
<td>6530</td>
<td>Post Revolution</td>
<td>Romantics, symbolists, decadents, and surrealists, including Baudelaire, Rimbaud, Verlaine, Mallarmé, Apollinaire and Prévert. Taught in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CHM4210R</td>
<td>4210R</td>
<td>Adv Inorganic Syn Rec</td>
<td>Required recitation for CHM 4210.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSY8760</td>
<td>8760</td>
<td>Job Performance</td>
<td>Seminar with in-depth coverage of job performance. Topics will include: dimensionality of job performance, measurement techniques and common errors, and various other IQ and HF topics related to job performance.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ECE4000</td>
<td>4000</td>
<td>Curr. Design &amp; Integ.</td>
<td>Integration of content, philosophies, theories, and practical application in early childhood classrooms. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>HPR2600</td>
<td>2600</td>
<td>Intro to Education</td>
<td>Orientation to the teaching profession and pluralistic American society as well as an awareness of the global community.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CNL8640</td>
<td>8640</td>
<td>Practicum</td>
<td>Provides an experience in counseling, interviewing, training, and/or consultation in which the student under supervision, demonstrates skills in educational, vocational, organizational, and/or personal areas to individuals and/or groups.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BIO3150</td>
<td>3150</td>
<td>Invertebrate Zoology</td>
<td>Introduction to the evolution, diversity, and ecology of invertebrate animals. Major patterns in the evolution of form and function of animal bodies. Examination of old and new theories about relationships among animal groups.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CS2200R</td>
<td>2200R</td>
<td>Discrete Struct Alg Rec</td>
<td>Required recitation for CS 2200.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BMS8030</td>
<td>8030</td>
<td>Pathogenic Microbiology</td>
<td>(Also listed as M&amp;I 7270.) Microorganisms pathogenic for humans and animals using the organ system approach. Emphasis on mechanisms of pathogenesis and host resistance. Includes a project segment devoted to the independent study of the mechanisms of pathogenesis in the host-parasite interactions of the infectious agents used.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CLS3300</td>
<td>3300</td>
<td>Studies in Ancient Lit</td>
<td>Drama, epic, and lyric poetry; prose; selected themes in ancient literature; and literary criticism. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PLS3450</td>
<td>3450</td>
<td>Public Administration</td>
<td>Nature and scope of public administration, administrative law, and public interest in the administrative process.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>RHB3650</td>
<td>3650</td>
<td>Rehab &amp; Corrections</td>
<td>Integration to rehabilitation students to corrections. Students will learn about correctional programs and barriers to community reentry for ex-offenders.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ATH4000</td>
<td>4000</td>
<td>Political Anthropology</td>
<td>Focuses on the anthropological study of political life cross-culturally. Presents evolutionary and historical approaches to political institutions, and classic anthropological analyses of political institutions. Investigates recent developments in the study of politics as a contemporary problem.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PLS6940</td>
<td>6940</td>
<td>Special Topics</td>
<td>Advanced study of a selected topic of contemporary political significance.</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
</tr>
<tr>
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</tr>
<tr>
<td>Spring 2021</td>
<td>PN8600</td>
<td>Prin Biomedical Research</td>
<td>8600</td>
<td>Principles of Biomedical Research is appropriate for students that will be involved in biomedical research. PBR provides a lecture and student interactive series to introduce students to the basics of biomedical research.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1160</td>
<td>Intro to Comp Program</td>
<td>1160</td>
<td>Basic concepts of programming using the Python programming language. Department Managed Prerequisite(s): WSU Math Placement Level 30 or Undergraduate level MTH 1280 Minimum grade of D or Undergraduate level MTH 1450 Minimum grade of D or Undergraduate level MTH 2410 Minimum grade of D or Undergraduate level STT 1600 Minimum grade of D or Undergraduate level STT 2640 Minimum grade of D.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME2020</td>
<td>Mech Drawing Solid Modl</td>
<td>2020</td>
<td>Basic concepts of engineering drawing with applications to manual and computer-aided drafting: multiview projections; sectional, auxiliary, and pictorial views; dimensioning; intersections and developments; introduction to finite element tools.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH4880</td>
<td>Independent Study</td>
<td>4880</td>
<td>Independent reading, writing, and/or reporting in areas related to health, physical education, or recreation. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6760</td>
<td>Air Quality Management</td>
<td>6760</td>
<td>Designed to provide a broad overview of the science of air quality and its management: includes atmospheric pollutants, dispersion, health and welfare effects, air-quality monitoring, source control, regulation, and indoor air pollution.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT6340</td>
<td>Biological Safety</td>
<td>6340</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3000</td>
<td>Internship in CJ Family</td>
<td>3000</td>
<td>Supervised field experience in criminal justice and family agencies. Requires readings, activity log, progress report, and final synthesis paper. Must be prearranged with departmental internship coordinator at least one term prior to placement.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT2120</td>
<td>Human Anatomy &amp; Phys II</td>
<td>2120</td>
<td>Introductory survey of the anatomy and physiology of the human body with an emphasis on clinical applications. Endocrine system, cardiovascular system, lymphatic system, respiratory system, urinary system, acid-base balance, fluid balance, reproductive system and digestive system. Laboratory exercises use human donors.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LAT6810</td>
<td>Indepen Reading in Latin</td>
<td>6810</td>
<td>Reading and discussion of selected works of Latin literature with emphasis on grammatical, rhetorical, literary, and cultural analysis and criticism. May be repeated for credit by number, but not by content. Prerequisite: three years college Latin or departmental permission. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4210</td>
<td>Urine/BodyFluid Analysis</td>
<td>4210</td>
<td>Study of body fluids, including the pathophysiology of their formation and the biochemical and morphologic methods used to obtain diagnostic information.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUA3220</td>
<td>Applied Music</td>
<td>3220</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO6810</td>
<td>Bioinformatic Algorithms</td>
<td>6810</td>
<td>Theory-oriented approach to the application of contemporary algorithms to bioinformatics. Graph theory, complexity theory, dynamic programming and optimization techniques are introduced in the context of application toward solving specific computational problems in molecular genetics.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT4425</td>
<td>Senior Seminar</td>
<td>4425</td>
<td>Small interactive seminar on academic experiences for life in the graphic design field.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR6130</td>
<td>FR Instruc Practicum III</td>
<td>6130</td>
<td>Peer teachers observe elementary and/or intermediate level classes. Continuation of practicum from FR 6120. Department Managed Prerequisite(s): Graduate level FR 6120 Minimum grade of D or Undergraduate level FR 6120 Minimum grade of D.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ESI7120</td>
<td>Env Bio Genes Org &amp; Eco</td>
<td>7120</td>
<td>Graduate level introduction to environmental biology at multiple levels of biological organization including molecular biology, organismal physiology and evolutionary biology, and community and ecosystem ecology.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3520L</td>
<td>Human Biomechanics Lab</td>
<td>3520L</td>
<td>Required laboratory for BIO 3520.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR6120</td>
<td>FR Instruc Practicum II</td>
<td>6120</td>
<td>Department Managed Prerequisite(s): Graduate level FR 6120 Minimum grade of D or Undergraduate level FR 6120 Minimum grade of D.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ES7120</td>
<td>Env Bio Genes Org &amp; Eco</td>
<td>7120</td>
<td>Graduate level introduction to environmental biology at multiple levels of biological organization including molecular biology, organismal physiology and evolutionary biology, and community and ecosystem ecology.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3520L</td>
<td>Human Biomechanics Lab</td>
<td>3520L</td>
<td>Required laboratory for BIO 3520.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Type</td>
<td>Credits</td>
<td>Description</td>
</tr>
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</tr>
<tr>
<td>EES1990</td>
<td>Directed Studies</td>
<td>EES</td>
<td>1.0</td>
<td>Course topics designed for undergraduate students at the freshman or sophomore level. May be taken for a letter grade or pass/unsatisfactory.</td>
</tr>
<tr>
<td>ART4170</td>
<td>Art</td>
<td>ART</td>
<td>3</td>
<td>Intensive studies of periods, major movements, and artists in non-Western art. &lt;br&gt;Department Managed Prerequisite(s): Undergraduate level ART 3170 Minimum Grade of D.</td>
</tr>
<tr>
<td>PTX4004</td>
<td>Med Chem, Radio &amp; Nuclear Def</td>
<td>PTX</td>
<td>3</td>
<td>Discussion of chemical agents, radiological dispersal devices, and nuclear weapons from a medical and public health perspective, as well as the basics of radiation health physics and nuclear weapon proliferation.</td>
</tr>
<tr>
<td>EDS4190</td>
<td>Dyslexia Interventions Methods</td>
<td>EDS</td>
<td>3</td>
<td>Practices and procedures used in developing curricula for individuals with dyslexia and dyslexia tendencies. Clinical application, classroom accommodation, and development/implementation of the IEP are discussed.</td>
</tr>
<tr>
<td>EDS6260</td>
<td>Practicum: ECIS</td>
<td>EDS</td>
<td>2</td>
<td>Educators with prior teaching licenses, under direct supervision of an experienced intervention specialist, are assigned for field experience in grades preK-3rd special education classroom.</td>
</tr>
<tr>
<td>WGS5050</td>
<td>Topics Sexuality Studies</td>
<td>WGS</td>
<td>3</td>
<td>Issues, approaches, and topics in the field of sexuality studies. Titles and topics vary.</td>
</tr>
<tr>
<td>BME1110L</td>
<td>Fundamentals of BIE Lab</td>
<td>BME</td>
<td>0.5</td>
<td>Requires laboratory for BME 1110.</td>
</tr>
<tr>
<td>ED7450</td>
<td>Content Literacies K-12</td>
<td>ED</td>
<td>3</td>
<td>Exploration of content area learning with an emphasis on effective literacy strategies including: vocabulary/concept development, comprehension, writing, technology, and resources to enhance literacy learning for diverse learners in grades K-12.</td>
</tr>
<tr>
<td>GEO6440</td>
<td>Adv GIS Applications</td>
<td>GEO</td>
<td>4</td>
<td>Study of advanced geo-spatial analysis techniques using ArcView and ArcGIS software. GIS analysis and technology used to describe spatial elements of public and private sector development issues and to forecast change.</td>
</tr>
<tr>
<td>TFW6490</td>
<td>Transition to Work</td>
<td>TFW</td>
<td>1</td>
<td>Students assigned to an experienced job training coordinator in the field for observing, discussing, researching, and practicing skills in the area of job placement, particularly those related to collaborating with support agencies for transition.</td>
</tr>
<tr>
<td>REL5820</td>
<td>Sociology of Religion</td>
<td>REL</td>
<td>3</td>
<td>(Also listed as SOC 5110.) Treatment of religion as a social institution. Examines the influence of religious ideas and organizations on other social institutions, and the influence of society on religion.</td>
</tr>
<tr>
<td>MUE6940</td>
<td>Univ Women's Chorale</td>
<td>MUE</td>
<td>1</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced choral literature from a wide range of historical and compositional styles. Audition required.</td>
</tr>
<tr>
<td>SCM4950</td>
<td>Project in SCM</td>
<td>SCM</td>
<td>3</td>
<td>Practical experience in analyzing, designing, implementing, evaluating, and developing supply chain management for businesses and non-profit organizations. Service Learning course.</td>
</tr>
<tr>
<td>ECE7300</td>
<td>Soc Dev and Play in ECR</td>
<td>ECE</td>
<td>3</td>
<td>Social, cognitive, and emotional development theories as they relate to the play of young children.</td>
</tr>
<tr>
<td>ED6700</td>
<td>Student Learning &amp; Motiv</td>
<td>ED</td>
<td>3</td>
<td>Understand theories of learning and motivation as well as appropriate preK-12 assessment in the context of principles from the field of educational psychology.</td>
</tr>
<tr>
<td>MKT7150</td>
<td>Viral Mkt &amp; Social Media</td>
<td>MKT</td>
<td>3</td>
<td>This course focuses on theory, application and practice associated with viral marketing activities. Goals for students are 1) identify the major components of a viral marketing campaign 2) understand how the viral marketing approach is being used strategically by advertisers and marketers 3) understand the psychological motivations associated with content sharing (WOM).</td>
</tr>
<tr>
<td>LEP0330</td>
<td>Grammar - Level 3</td>
<td>LEP</td>
<td>0</td>
<td>Grammar for high-intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>UH1010</td>
<td>Honors First Year Sem</td>
<td>UH</td>
<td>1</td>
<td>Information and activities designed to enhance the success of new students in the University Honors Program. Introduces students to interdisciplinary studies, the hallmark of honors education.</td>
</tr>
<tr>
<td>EE3000</td>
<td>Solid State EE Materials</td>
<td>EE</td>
<td>3</td>
<td>Essential physical parameters of solids: elastic and thin-film properties (i.e. MEMS devices); electromechanical, piezoelectric and ferroelectric properties; paramagnetism and ferromagnetism; electron transport properties (metals and semiconductors); electronic bandgap and bandgap engineering; and the essential role of crystallinity in enhancing desired parameters (i.e. dielectric function in ferroelectrics or electron mobility in semiconductors).</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Instructor(s)</td>
<td>Prerequisite(s)</td>
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<tr>
<td>HST4750</td>
<td>21st-Century History</td>
<td>3</td>
<td>History</td>
<td>-</td>
</tr>
<tr>
<td>MBA7500</td>
<td>Leadership and Ethics</td>
<td>3</td>
<td>MBA MBA</td>
<td>-</td>
</tr>
<tr>
<td>FIN4270</td>
<td>Practicum in Fin Plan</td>
<td>3</td>
<td>FIN Finance</td>
<td>-</td>
</tr>
<tr>
<td>IHE7371</td>
<td>Fail Analysis Med Device</td>
<td>3</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td>-</td>
</tr>
<tr>
<td>ENG6690</td>
<td>Tech Writ &amp; Skills Intl</td>
<td>3</td>
<td>ENG English</td>
<td>-</td>
</tr>
<tr>
<td>COM4251</td>
<td>Race, Gender, and Health</td>
<td>3</td>
<td>COM Communication</td>
<td>-</td>
</tr>
<tr>
<td>SOC3220</td>
<td>Juvenile Delinquency</td>
<td>3</td>
<td>SOC Sociology</td>
<td>-</td>
</tr>
<tr>
<td>IDL5110</td>
<td>Digital Teaching Tools</td>
<td>3</td>
<td>IDL Instructional Design &amp; Learning</td>
<td>-</td>
</tr>
<tr>
<td>MKT3500</td>
<td>Mkt Rach Decision</td>
<td>3</td>
<td>MKT Marketing</td>
<td>-</td>
</tr>
<tr>
<td>TH1580</td>
<td>Singing Mus Theatre II</td>
<td>2</td>
<td>TH Theatre</td>
<td>-</td>
</tr>
<tr>
<td>ED7904</td>
<td>Instruct Practices in Math</td>
<td>1</td>
<td>ED Education</td>
<td>-</td>
</tr>
<tr>
<td>ARA3210</td>
<td>Adv ARA Syntax &amp; Gramr</td>
<td>3</td>
<td>ARA Arabic</td>
<td>-</td>
</tr>
<tr>
<td>FR6540</td>
<td>19th Century Short Story</td>
<td>3</td>
<td>FR French</td>
<td>-</td>
</tr>
<tr>
<td>ACC4420</td>
<td>Govt Not Profit Account</td>
<td>3</td>
<td>ACC Accountancy</td>
<td>-</td>
</tr>
<tr>
<td>EE7830</td>
<td>Machine Learning</td>
<td>3</td>
<td>EE Electrical Engineering</td>
<td>-</td>
</tr>
<tr>
<td>ED7860</td>
<td>Assess &amp; Eval for Instr</td>
<td>3</td>
<td>ED Education</td>
<td>-</td>
</tr>
<tr>
<td>DOS9080</td>
<td>Struct Equation Modeling</td>
<td>3</td>
<td>DOS Doctor Org Studies</td>
<td>-</td>
</tr>
<tr>
<td>ENG4610</td>
<td>Rhetoric, Culture</td>
<td>3</td>
<td>ENG English</td>
<td>-</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Mode</td>
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</tr>
<tr>
<td>HST7750</td>
<td>7750</td>
<td>Interpretation &amp; Exhibit</td>
<td>HST History</td>
<td>3</td>
</tr>
<tr>
<td>IHE5150</td>
<td>6150</td>
<td>Adv Prob &amp; Stats for Engineers</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td>3</td>
</tr>
<tr>
<td>ART3690</td>
<td>3690</td>
<td>Beg Printmkng: Screenprint</td>
<td>ART Art</td>
<td>3</td>
</tr>
<tr>
<td>CHI3220</td>
<td>3220</td>
<td>Adv Chinese Composition</td>
<td>CHI Chinese</td>
<td>3</td>
</tr>
<tr>
<td>SW3000</td>
<td>3000</td>
<td>Research Methods in LA</td>
<td>SW Social Work</td>
<td>3</td>
</tr>
<tr>
<td>EDT7510</td>
<td>7510</td>
<td>Media Literacy</td>
<td>EDT Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>SAA4100</td>
<td>4100</td>
<td>Spcl Topics Res Life</td>
<td>SAA Student Affairs in Higher Ed</td>
<td>1</td>
</tr>
<tr>
<td>EES4780</td>
<td>4780</td>
<td>Env Sciences Seminar</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>1</td>
</tr>
<tr>
<td>OIS1150</td>
<td>1150</td>
<td>Business/Office Corrs</td>
<td>OIS Office Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CHM5520R</td>
<td>5520</td>
<td>Physical Chemistry II Rec</td>
<td>CHM Chemistry</td>
<td>0</td>
</tr>
<tr>
<td>KNI11340B</td>
<td>1340B</td>
<td>Judo</td>
<td>KNI Kinesiology &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>PLS3400</td>
<td>3400</td>
<td>Law and Society</td>
<td>PLS Political Science</td>
<td>3</td>
</tr>
<tr>
<td>ED6500</td>
<td>6500</td>
<td>Specific Studies in Educ</td>
<td>ED Education</td>
<td>0.5</td>
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<tr>
<td>ENG6620</td>
<td>6620</td>
<td>Document Design</td>
<td>ENG English</td>
<td>3</td>
</tr>
<tr>
<td>PLS6920</td>
<td>6920</td>
<td>Indep Field Research</td>
<td>PLS Political Science</td>
<td>1</td>
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<tr>
<td>EDL7680</td>
<td>7680</td>
<td>Teaching Diverse Learners</td>
<td>EDL Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BIO4200</td>
<td>4200</td>
<td>Designing Biological Exp</td>
<td>BIO Biology</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Instructor(s)</td>
<td>Department</td>
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<tr>
<td>DMV8010</td>
<td>Internship Molec Bio of the</td>
<td>0.5</td>
<td></td>
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</tr>
<tr>
<td>ISE4910</td>
<td>Segment one of the ISE senior design sequence.  Introduction to patents and engineering ethics included. Practicum results in the definition of the capstone design project to be completed in ISE 4920. Integrated Writing course.</td>
<td></td>
<td></td>
<td>ISE</td>
</tr>
<tr>
<td>IHE7990</td>
<td>Independent Study in IHE II</td>
<td>1</td>
<td></td>
<td>IHE</td>
</tr>
<tr>
<td>EDL9860</td>
<td>Analyzing organizations and educational institutions in particular through a social systems orientation. Role theory, leadership theory and styles, ethical behavior, and decision-making theory and practice are addressed from an organizational perspective.</td>
<td></td>
<td></td>
<td>EDL</td>
</tr>
<tr>
<td>BMB7600</td>
<td>Molec Bio of the Nucleus Also listed as BMS 7600. A literature based course covering molecular events in the nucleus including DNA replication, repair and recombination and transcription.</td>
<td></td>
<td></td>
<td>BMB</td>
</tr>
<tr>
<td>PHL5650</td>
<td>Theories of human nature. Topics vary.</td>
<td>3</td>
<td></td>
<td>PHL</td>
</tr>
<tr>
<td>HED4430</td>
<td>Knowledge and skills for planning, implementing, and evaluating school and community health education programs. Integrated Writing course.</td>
<td></td>
<td></td>
<td>HED</td>
</tr>
<tr>
<td>PHY8000</td>
<td>Scheduled discussions of current problems in physics. Centered around guest lecturer and student presentations.</td>
<td></td>
<td></td>
<td>PHY</td>
</tr>
<tr>
<td>M&amp;H4310</td>
<td>Intrinsic properties of viruses that cause human disease and their interaction with cells, multiplication, genetics, and tumor induction.</td>
<td></td>
<td></td>
<td>M&amp;H</td>
</tr>
<tr>
<td>NUR7513</td>
<td>Focus is on models of practice in providing health care to infants, children and adolescents within the full scope of advanced practice (wellness, common minor health problems, and high acute and complex chronic illness). Factors influencing role development and delegation/supervision, quality improvements, accreditation standards, professional standards, and prescriptive authority will be addressed.</td>
<td></td>
<td></td>
<td>NUR</td>
</tr>
<tr>
<td>SOC3810</td>
<td>Introduction to the social dimensions of health and illness; consideration of patterns of disease, along with the organization, provision, and delivery of medical services.</td>
<td></td>
<td></td>
<td>SOC</td>
</tr>
<tr>
<td>ED7110</td>
<td>Understand theories of learning and motivation as well as appropriate preK-12 assessment in the context of principles from the field of educational psychology.</td>
<td></td>
<td></td>
<td>ED</td>
</tr>
<tr>
<td>PSY3410</td>
<td>Survey of theory, research, and methodological issues in the study of development across the lifespan.</td>
<td></td>
<td></td>
<td>PSY</td>
</tr>
<tr>
<td>EE4440</td>
<td>Theory and applications of integrated circuits. Bipolar and field effect transistor amplifier analysis and design, multi-stage and feed back amplifiers, ideal and real operational amplifiers, frequency response and compensation, active filters, comparators, and waveform generators.</td>
<td></td>
<td></td>
<td>EE</td>
</tr>
<tr>
<td>NUR3100</td>
<td>Focuses on physiological change, clinical manifestations, and diagnostic criteria in a variety of disease processes across the lifespan that are fundamental to the development of critical reasoning and planning of nursing care. (3 didactic hrs)</td>
<td></td>
<td></td>
<td>NUR</td>
</tr>
<tr>
<td>REL3630</td>
<td>Role of women in American religious history, with special reference to the diversity of women's religious experiences.</td>
<td></td>
<td></td>
<td>REL</td>
</tr>
<tr>
<td>TTW6500</td>
<td>Students assigned to an experienced Transition to Work Coordinator in the field for observing, discussing, researching, and practicing skills in coordinating direct and related transition services for students with various disabilities.</td>
<td></td>
<td></td>
<td>TTW</td>
</tr>
<tr>
<td>ATH2150</td>
<td>Introduction to basic concepts, ideas, issues and debates in cultural anthropology, using examples from Asia, Africa, Latin America, Native North America and the Middle East. Explores diverse ways in which humans relate to one another, and reveals the cultural milieus, political configurations, ways of speaking and environments which people have used to shape their world. Integrated Writing course. Credit will not be given to students who have completed CST 2410, ATH 2500 or ATH 2110.</td>
<td></td>
<td></td>
<td>ATH</td>
</tr>
<tr>
<td>MUS4800</td>
<td>Selected special topics or problems in music or special areas of music teaching. Titles vary.</td>
<td></td>
<td></td>
<td>MUS</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department/College</td>
<td>Course Description</td>
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<tr>
<td>FR6810</td>
<td>Ind Read for Grad Students</td>
<td>6810</td>
<td></td>
<td>Independent reading for graduate students. Taught in French. &lt;b&gt;Prerequisite(s):&lt;/b&gt; FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D&lt;/b&gt;</td>
</tr>
<tr>
<td>OIS2480</td>
<td>Capstone</td>
<td>2480</td>
<td>Office Information Systems</td>
<td>Comprehensive project in office applications.</td>
</tr>
<tr>
<td>KNIH1040A</td>
<td>Army Fitness Training</td>
<td>1040A</td>
<td>Kinesiology &amp; Health</td>
<td>Fundamental skills and knowledge of Army Fitness Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>BME4950</td>
<td>Undergrad Resch BME II</td>
<td>4950</td>
<td>Biomedical Engineering</td>
<td>Undergraduate research in advanced biomedical engineering. Topics vary.</td>
</tr>
<tr>
<td>HST7200</td>
<td>Seminar in Ancient Hist</td>
<td>7200</td>
<td>History</td>
<td>Examines selected problems in Greek or Roman history to the death of Constantine in A.D. 337. Topics vary.</td>
</tr>
<tr>
<td>CHM6680</td>
<td>Exp Nanomaterials</td>
<td>6680</td>
<td>Chemistry</td>
<td>This course will provide a series of laboratory experiments similar to the state-of-the-art R&amp;D in nanotechnology and nanoscience. The experiments include 1) fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; 2) characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses etc; and 3) computational modeling of nanoscale physical phenomena.</td>
</tr>
<tr>
<td>SLI3550</td>
<td>Interpreter Mentoring</td>
<td>3550</td>
<td>Sign Language</td>
<td>Interpreting 3</td>
</tr>
<tr>
<td>BMS7050</td>
<td>Applied Linear Technique</td>
<td>7050</td>
<td>Biomedical Sciences</td>
<td>Graduate level linear engineering methods in finite and infinite dimensions.</td>
</tr>
<tr>
<td>MBA7220</td>
<td>Economics for Managers</td>
<td>7220</td>
<td>MBA</td>
<td>Applies economic theory and methods to business and administrative decision making. Prescribes rules for improving managerial decisions. Tells managers how things should be done to achieve organizational objectives efficiently. Also helps managers recognize how macroeconomic forces affect organizations, and describes the economic consequences of managerial behavior. Special attention is paid to the operation of the firm in a global economy.</td>
</tr>
<tr>
<td>ED6180</td>
<td>Assess Midle Lvl Educrts</td>
<td>6180</td>
<td>Education</td>
<td>This course focuses on varying assessment techniques and strategies (teacher-created and standardized) utilized in middle level education. Students will read, analyze and interpret assessment data to modify instruction and promote student success.</td>
</tr>
<tr>
<td>MUS2310</td>
<td>Percussion Pedagogy</td>
<td>2310</td>
<td>Music</td>
<td>Class instruction. Materials and pedagogy.</td>
</tr>
<tr>
<td>BIO3130L</td>
<td>Plant Biology Lab</td>
<td>3130L</td>
<td>Biology</td>
<td>Required laboratory for BIO 3130.</td>
</tr>
<tr>
<td>CEG4510</td>
<td>3D Modeling/Anim</td>
<td>4510</td>
<td>Computer Engineering</td>
<td>Transformations, interpolation, morphing, camera control, hierarchical kinematic modeling, rigid-body animation, controlling groups of objects, collision detection, image-based rendering. Students develop three programs and a final project relating to animation.</td>
</tr>
<tr>
<td>NEU4200</td>
<td>Neu-ImmSys Crs-Tlk Hmsts</td>
<td>4200</td>
<td>Neuroscience</td>
<td>Multidirectional interactions between the nervous and immune systems have been documented in homeostasis and pathologies ranging from multiple sclerosis to autism, and from leukemia to acute and chronic inflammation. This course focuses on neuro-immune interactions at barrier surfaces—mostly the gut, but also including the skin and the airways, areas densely populated by neurons and immune cells that constantly sense and adapt to tissue-specific environmental challenges.</td>
</tr>
<tr>
<td>BME4440</td>
<td>Biomaterials</td>
<td>4440</td>
<td>Biomedical Engineering</td>
<td>Application of materials in different biomedical fields. Design and analyses.</td>
</tr>
<tr>
<td>PLS5420</td>
<td>Civil Liberties 1st Amendment</td>
<td>5420</td>
<td>Political Science</td>
<td>Cases and related materials on the Bill of Rights and the Fourteenth Amendment with emphasis on the First Amendment freedoms, concentrating on Supreme Court behavior and First Amendment procedures.</td>
</tr>
<tr>
<td>RHB3830</td>
<td>Disability Studies Cap</td>
<td>3830</td>
<td>Rehabilitation</td>
<td>Provides culminating experience of the minor, focusing on integration and application of interdisciplinary research and theory within disability studies relative to students major, research interests, and professional goals.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Level</td>
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<tr>
<td>CEG4450</td>
<td>4450</td>
<td>Sensor Net and Systems</td>
<td>Introduction to wireless sensor networks, fundamental problems and their solutions. Focus on data aggregation, dissemination, localization, power management, security, algorithms and protocol. Students develop applications using Micaz motes and sensors running TinyOS operating system.</td>
<td>UG</td>
</tr>
<tr>
<td>EES6200</td>
<td>6200</td>
<td>Micropaleontology</td>
<td>Understand the origination, evolution, and diversity of microfossil organisms. The utilization of microfossils are as biostratigraphic indicators, and their role in interpreting the geologic history of the Earth. Paleocological and paleoenvironmental reconstruction using specific microfossil organisms. Microfossils as indicators of metamorphism.</td>
<td>GR</td>
</tr>
<tr>
<td>MLB4810</td>
<td>4810</td>
<td>Basic Immunohematology</td>
<td>Theory and application of the use of antigens and antibodies in blood grouping and transfusion medicine.</td>
<td>UG</td>
</tr>
<tr>
<td>KNH1240A</td>
<td>1240A</td>
<td>Golf</td>
<td>Fundamental skills and knowledge of Golf. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>ED4180</td>
<td>4180</td>
<td>Assess for Mid Childh Ed</td>
<td>Varying assessment techniques and strategies (teacher-created and standardized) utilized in middle level education. Students will read, analyze and interpret assessment data to modify instruction and promote student success.</td>
<td>UG</td>
</tr>
<tr>
<td>PLS6821</td>
<td>6821</td>
<td>Pre-Law Internship</td>
<td>Intern 12-15 hours per week in regional law offices, including prosecutors, public defenders, and private practices. Assist attorneys, participate in outreach program activities, and observe trials.</td>
<td>GR</td>
</tr>
<tr>
<td>FAS2060</td>
<td>2060</td>
<td>Agriculture Study Tour</td>
<td>Exploration of economic, cultural, social, and agricultural production issues in a region (or regions) of the United States or abroad. Tours include agriculture business operations, farms/ranches, community/government tours, and cultural or historical components of significance.</td>
<td>UG</td>
</tr>
<tr>
<td>RHB7200</td>
<td>7200</td>
<td>Case Management</td>
<td>Assists students in conducting intake interviews, case recording, facilitation of multidisciplinary teams, writing rehabilitation plans with appropriate justifications and measurable outcomes, and case management skills.</td>
<td>GR</td>
</tr>
<tr>
<td>CEG4400L</td>
<td>4400L</td>
<td>Comp Networks &amp; Security Lab</td>
<td>Required laboratory for CEG 4400.</td>
<td>UG</td>
</tr>
<tr>
<td>MUS2020</td>
<td>2020</td>
<td>Theory of Music IV</td>
<td>Continuation of MUS 1010 and 1020. Part-writing, analysis, and harmony on a more advanced level.</td>
<td>UG</td>
</tr>
<tr>
<td>BMS7100</td>
<td>7100</td>
<td>Continuous Control Syst</td>
<td>Introductory course providing students with a general control background. Major topics include block diagrams and signal-flow graphs, electromechanical modeling, time response, root locus, and design of PID controllers.</td>
<td>GR</td>
</tr>
<tr>
<td>URS6960</td>
<td>6960</td>
<td>Transit Internship</td>
<td>A one semester supervised internship of at least 300 hours in a selected public, nonprofit or public-service transit agency. Arranged in consultation with student's adviser or intern director.</td>
<td>GR</td>
</tr>
<tr>
<td>PSY2640</td>
<td>2640</td>
<td>Evolution and Psychology</td>
<td>Scientific movements that paved the way for the science of evolutionary psychology. Methods of testing evolutionary hypotheses, problems of survival and group living, and the challenges of sex and mating, and of parenting and kinship.</td>
<td>UG</td>
</tr>
<tr>
<td>MUS3550</td>
<td>3550</td>
<td>Keyboard Musicianship</td>
<td>This course provides vocal performance education majors with functional and technical keyboard skills.</td>
<td>UG</td>
</tr>
<tr>
<td>ITL4890</td>
<td>4890</td>
<td>Intl Cont'd Registration</td>
<td>International students in undergraduate programs who need to complete incomplete coursework or degree requirements may register for ITL 4890. This course is not graded and does not carry a tuition charge.</td>
<td>UG</td>
</tr>
<tr>
<td>BIO6990</td>
<td>6990</td>
<td>Special Prob in Biology</td>
<td>All assignments, reading material, and experimentation are determined by instructor. Typically, instructional material will be derived from primary research literature and writing a critical review paper will be required. This does not discount inclusion of relevant laboratory or field exercises. Instruction will generally consist of one-on-one, student/instructor discussions and mentoring.</td>
<td>GR</td>
</tr>
<tr>
<td>ED6030</td>
<td>6030</td>
<td>Read &amp; Lit II: Int Spec</td>
<td>Extends knowledge of literacy instruction and addresses more advanced levels of literacy including content reading and writing for research and extended response.</td>
<td>GR</td>
</tr>
<tr>
<td>SPN5810</td>
<td>5810</td>
<td>Applied Elem Spn Instr</td>
<td>Assistance for elementary course instructors in conducting classes.</td>
<td>GR</td>
</tr>
<tr>
<td>CS3180</td>
<td>3180</td>
<td>Comparative Languages</td>
<td>Fundamental concepts and paradigms underlying modern programming languages to enable better appreciation, comparison and evaluation of languages. Covers an object-oriented language, a functional language, a logic language, and a multi-paradigm scripting language. Basics of interpreters and compilers are explored through programming assignments.</td>
<td>UG</td>
</tr>
<tr>
<td>CLS3600</td>
<td>3600</td>
<td>Ancient Mythology</td>
<td>Greek and Roman mythology; aspects of and approaches to the study of myths. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Semester</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>EE4460</td>
<td>4</td>
<td>Microwave Egr II</td>
<td>EE Electrical Engineering</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES3450</td>
<td>3.5</td>
<td>Concepts EES I</td>
<td>EES Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6881</td>
<td>6.881</td>
<td>Diplomacy &amp; Negotiation</td>
<td>PLS Political Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS7010</td>
<td>7.010</td>
<td>ICP Statistics</td>
<td>PLS Political Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6040</td>
<td>6.040</td>
<td>Curr Methds Marths Autism</td>
<td>EDS Education - Special Education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MBA7600</td>
<td>7.600</td>
<td>Marketing Strategy</td>
<td>MBA MBA</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX7010</td>
<td>7.010</td>
<td>Research Techniques</td>
<td>PTX Pharmacology/Toxicology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS9960</td>
<td>9.960</td>
<td>Laboratory Rotation I</td>
<td>BMS Biomedical Sciences</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM4880</td>
<td>4.880</td>
<td>Ind Reading</td>
<td>CHM Chemistry</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3530L</td>
<td>3.530</td>
<td>Exercise Physiology Lab</td>
<td>BIO Biology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI9630</td>
<td>9.630</td>
<td>Practice Mgmt</td>
<td>PSI Professional Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART2110</td>
<td>2.110</td>
<td>Art Hist I: Ancient-Ren</td>
<td>ART Art</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUA1210</td>
<td>1.210</td>
<td>Applied Music</td>
<td>MUA Music</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4620</td>
<td>4.620</td>
<td>Ergonomics Capstone</td>
<td>PSY Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1080B</td>
<td>1.080B</td>
<td>Basketball</td>
<td>KNH Kinesiology &amp; Health</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES2500</td>
<td>2.500</td>
<td>GMC Lead Lab</td>
<td>AES Aerospace Studies</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST3900</td>
<td>3.900</td>
<td>Global Encounters</td>
<td>HST History</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6180</td>
<td>6.180</td>
<td>Additive Manufacturing</td>
<td>ME Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Name</td>
<td>Department/Program</td>
<td>Credits</td>
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<tr>
<td>Spring 2021</td>
<td>PTX7021 7021</td>
<td>Effective Sci Writing: P1</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4500 4500</td>
<td>Electricity Magnetism I</td>
<td>PHY</td>
<td>Physics</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6190 6190</td>
<td>Dyslexia Interventions Methods</td>
<td>EDS</td>
<td>Education - Special Education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS2230 2230</td>
<td>Brass Pedagogy</td>
<td>MUS</td>
<td>Music</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS2160 2160</td>
<td>Visual Basic Programming</td>
<td>CS</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI9430 9430</td>
<td>Psychodynamic Psychotherapies I</td>
<td>PSI</td>
<td>Professional Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART3490 3490</td>
<td>Intermediate Painting II</td>
<td>ART</td>
<td>Art</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4100 4100</td>
<td>NANO/Micro Fabrication</td>
<td>EE</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IST3300 3300</td>
<td>Survey African History</td>
<td>IST</td>
<td>History</td>
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<td>Spring 2021</td>
<td>COM1520 1520</td>
<td>Mass Comm</td>
<td>COM</td>
<td>Communication</td>
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<tr>
<td>Spring 2021</td>
<td>EDT7200 7200</td>
<td>SLM Programs</td>
<td>EDT</td>
<td>Educational Technology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE4850 4850</td>
<td>Six Sigma for Engineers</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART3120 3120</td>
<td>Studies in Medieval Art</td>
<td>ART</td>
<td>Art</td>
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<tr>
<td>Spring 2021</td>
<td>CEG7570 7570</td>
<td>Pattern Recognition</td>
<td>CEG</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6000 6000</td>
<td>PSY Capstone Topics</td>
<td>PSY</td>
<td>Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HTH2140 2140</td>
<td>Theatre Western Culture</td>
<td>TH</td>
<td>Theatre</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY9030 9030</td>
<td>Comp Cognitive Modeling</td>
<td>PSY</td>
<td>Psychology</td>
</tr>
<tr>
<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>EDS6120</td>
<td>Math Content Stands IS</td>
<td>6120</td>
<td>Introduction to Ohio Department of Education K through 12th grade mathematics content standards. Addresses mathematics knowledge, pedagogy, and PRAXIS exam expectations.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH1480</td>
<td>Acting Aesthetics</td>
<td>1480</td>
<td>Generalized acting course that includes various aspects of movement, vocal technique, improvisation, and scene work.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS4390</td>
<td>Issues-Nonprofit Admin</td>
<td>4390</td>
<td>Issues and topics related to the administration of nonprofit organizations.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME1990</td>
<td>Independ Stdy in BME 1</td>
<td>1990</td>
<td>Undergraduate independent studies in biomedical engineering. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHJ3500</td>
<td>Professor-led study abroad program in CHI</td>
<td>3500</td>
<td>Professor-led study abroad program in China, service-learning intensive course, taught in Chinese.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GER5900</td>
<td>Foreign Lang Institute</td>
<td>5900</td>
<td>For teachers of German. Intensive experience designed, through total immersion, to improve language skills (conversation and composition) and awareness of German civilization and contemporary culture.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6730</td>
<td>TESOL Theory and Culture</td>
<td>6730</td>
<td>Presents a theoretical foundation for the study of second language acquisition, including awareness of first language acquisition.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ACC7480</td>
<td>Ethics &amp; Corp Governance</td>
<td>7480</td>
<td>Provides students an understanding of sound corporate governance principles and an ability to apply professional ethics standards for accountants and an awareness of ethical dilemmas commonly faced by accounting professionals.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4600</td>
<td>Human Factors Cap</td>
<td>4600</td>
<td>Communication-intensive seminar integrating knowledge on human factors psychology. Topics will vary. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIL2020</td>
<td>Found of Tactical Ldrshp</td>
<td>2020</td>
<td>Examines the challenges of leading tactical teams in complex contemporary operating environments. Highlights terrain analysis, patrolling, and operation orders. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. Contracted students are required to participate in two-hour lab, physical fitness program and weekend training exercises.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR3990</td>
<td>Studies Selected Subject</td>
<td>3990</td>
<td>Individual research project approved and supervised by a full-time faculty member. Taught in French.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6500</td>
<td>Computer Graphics</td>
<td>6500</td>
<td>Raster graphics algorithms, geometric primitives and their attributes, clipping, antialiasing, geometric transformations, structures and hierarchical models, input devices, and interactive techniques. Students develop interrelated programs to design a three-dimensional hierarchical model, manipulate, and view it.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW3890</td>
<td>Selected Topics in SW</td>
<td>3890</td>
<td>Selected topics related to current issues in social work practice; readings, research, and discussion. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6760</td>
<td>AYA: Int Science C&amp;M II</td>
<td>6760</td>
<td>Curriculum and materials concerned with issues at the interfaces of science, technology, and society (STS). Clinical experiences, methodology, literature, resources and rationale are emphasized.</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
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<tr>
<td>Spring 2021</td>
<td>ME6550</td>
<td>Geothermal Energy</td>
<td>ME</td>
<td>6550</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME3530</td>
<td>BME Signals and Systems</td>
<td>BME</td>
<td>3530</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY7910</td>
<td>Internship</td>
<td>PSY</td>
<td>7910</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS4850</td>
<td>Foundations of AI</td>
<td>CS</td>
<td>4850</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE6420</td>
<td>Innov &amp; Entrep Sem</td>
<td>IHE</td>
<td>6420</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB7670</td>
<td>Mol Basis Inherited Dis</td>
<td>BMB</td>
<td>7670</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS4080</td>
<td>Dyslexia&amp;Multi-Sensory Instruc</td>
<td>EDS</td>
<td>4080</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME6850</td>
<td>Six Sigma for Engineers</td>
<td>BME</td>
<td>6850</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNI1290</td>
<td>H2O Zumba</td>
<td>KNI</td>
<td>1290</td>
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<tr>
<td>Spring 2021</td>
<td>ED6300</td>
<td>Practicum: AYA</td>
<td>ED</td>
<td>6300</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY5990</td>
<td>Spec Problem in Physics</td>
<td>PHY</td>
<td>5990</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6430</td>
<td>Cyber Network Security</td>
<td>CEG</td>
<td>6430</td>
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<tr>
<td>Spring 2021</td>
<td>ME6440</td>
<td>Aerospace Propulsion</td>
<td>ME</td>
<td>6440</td>
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<tr>
<td>Spring 2021</td>
<td>STT4170</td>
<td>Short Term Actuarial Math II</td>
<td>STT</td>
<td>4170</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>NUR8920</td>
<td>8920</td>
<td>DNP Scholarly Proj Pract</td>
<td>This course is a guided, independent project applying the evidence-based practice process to healthcare delivery systems, nursing practice, and or health policy to promote population outcomes.</td>
<td>2021</td>
</tr>
<tr>
<td>PSY5910</td>
<td>5910</td>
<td>Behavioral Neurosci I</td>
<td>Physiological mechanisms of behavior. Basic neuroanatomy and neurophysiology, neuronal development and function, psychopathology, reproduction, learning, sleep, and stress.</td>
<td>2021</td>
</tr>
<tr>
<td>CHM6880</td>
<td>6880</td>
<td>Ind Reading in Chemistry</td>
<td>Selected Readings in Chemistry</td>
<td>2021</td>
</tr>
<tr>
<td>ED6610</td>
<td>6610</td>
<td>Practicum: TESOL</td>
<td>Educators with prior teaching license(s), under the direct supervision of an experienced classroom teacher, are assigned to a school for field experience in grades K-12 and Teaching English as a Second Language (TESOL).</td>
<td>2021</td>
</tr>
<tr>
<td>CHM5210</td>
<td>5210</td>
<td>Inorganic Chemistry</td>
<td>A thorough examination of the chemistry of the metals stressing the transition elements, ligand field theory and mechanisms of inorganic reactions.</td>
<td>2021</td>
</tr>
<tr>
<td>CHM4310</td>
<td>4310</td>
<td>Organic Chemistry</td>
<td>A thorough examination of the chemistry of the metals stressing the transition elements, ligand field theory and mechanisms of inorganic reactions.</td>
<td>2021</td>
</tr>
<tr>
<td>P&amp;N7100</td>
<td>7100</td>
<td>Breakthroughs Neurosci</td>
<td>Students will be able to critically read original literature and identify the creativity, logic and insight behind research breakthroughs in neuroscience.</td>
<td>2021</td>
</tr>
<tr>
<td>ED6850</td>
<td>6850</td>
<td>Cult &amp; Comm Comp for Edu</td>
<td>Introduces students to the cultural and communicative processes that affect the process of education.</td>
<td>2021</td>
</tr>
<tr>
<td>MIS4810</td>
<td>4810</td>
<td>Internship in IS</td>
<td>Students work on an information systems project in a firm or public agency and submit reports for completion of the course.</td>
<td>2021</td>
</tr>
<tr>
<td>EES3250</td>
<td>3250</td>
<td>Climate Change</td>
<td>Temperature and precipitation patterns over tens to millions of years. Factors studied include air pollution, orbital and solar variation, and plate tectonics. Nature of evidence for previous climatic conditions and the bases for predictions of future climate change.</td>
<td>2021</td>
</tr>
<tr>
<td>MIL4011</td>
<td>4011</td>
<td>Adaptive Ldrshp Lab</td>
<td>Prepares the cadets to become active duty Army officers, through various leadership roles responsible for the training of the Cadet Corp. Cadets implement the fundamentals learned in previous courses and their summer training. Each lab is cadet-led and cadre-supervised. Mandatory weekly two-hour leadership lab, three weekly physical fitness classes and weekend training exercises.</td>
<td>2021</td>
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<tr>
<td>Term</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>Spring 2021</td>
<td>SW7160</td>
<td>7160</td>
<td>Grad SW Research II</td>
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<td>Social Work</td>
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<tr>
<td>Spring 2021</td>
<td>IDL7220</td>
<td>7220</td>
<td>Instruct Design Concept &amp; Theory</td>
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<td>Instructional Design &amp; Learning</td>
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<tr>
<td>Spring 2021</td>
<td>MUA4110</td>
<td>4110</td>
<td>Applied Music</td>
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<td>Music: Applied</td>
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<td>Spring 2021</td>
<td>PPH7440</td>
<td>7440</td>
<td>Public Health Project Mgmt</td>
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<td>Population &amp; Public Health</td>
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<tr>
<td>Spring 2021</td>
<td>DAN1020</td>
<td>1020</td>
<td>Ballet I</td>
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<td>Dance</td>
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<tr>
<td>Spring 2021</td>
<td>MUS7720</td>
<td>7720</td>
<td>Assessment in Music Education</td>
<td>3</td>
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<td>Music</td>
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<tr>
<td>Spring 2021</td>
<td>HST3500</td>
<td>3500</td>
<td>Topics Latin Amer Hist</td>
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<td>Spring 2021</td>
<td>ARA4410</td>
<td>4410</td>
<td>Intro to Arabic Fiction</td>
<td>3</td>
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<td>Arabic</td>
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<td>Spring 2021</td>
<td>KNH1680A</td>
<td>1680A</td>
<td>Swimming: Advanced</td>
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<td>Kinesiology &amp; Health</td>
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<tr>
<td>Spring 2021</td>
<td>DS6310</td>
<td>6310</td>
<td>Soc &amp; Eth Issues in DS</td>
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<td>Data Science</td>
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<tr>
<td>Spring 2021</td>
<td>SOC3400</td>
<td>3400</td>
<td>Sociological Analysis</td>
<td>3</td>
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<td>Sociology</td>
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<tr>
<td>Spring 2021</td>
<td>NUR7099</td>
<td>7099</td>
<td>Thesis/Project</td>
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<td>Nursing</td>
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<tr>
<td>Spring 2021</td>
<td>SOC4400</td>
<td>4400</td>
<td>Qualitative Methods</td>
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<td>Sociology</td>
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<tr>
<td>Spring 2021</td>
<td>ATH5400</td>
<td>5400</td>
<td>Special Topics-Bio ATH</td>
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<td>Anthropology</td>
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<tr>
<td>Spring 2021</td>
<td>GER4180</td>
<td>4180</td>
<td>Goethe's Faust</td>
<td>3</td>
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<tr>
<td>Spring 2021</td>
<td>LE2990</td>
<td>2990</td>
<td>Law Enforce Internship</td>
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<td>Law Enforcement</td>
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<td>Course Code</td>
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<tr>
<td>KNH1400</td>
<td>1400</td>
<td>Lifeguard Training</td>
<td>Intermediate level of skills and knowledge in lifeguard training. Competency-based approach. Students should check competency levels posted in physical education building before enrolling.</td>
<td></td>
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<tr>
<td>PLS4610</td>
<td>4610</td>
<td>Comp Social Movements</td>
<td>Examines group behavior motivated by the desire to change or maintain political, economic, cultural or social systems. Examination of movements in countries around the world, including cross-national and global movements. Integrated Writing course.</td>
<td></td>
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<tr>
<td>EES4350</td>
<td>4350</td>
<td>Field Mapping</td>
<td>Geologic phenomena studied and mapped in the field. Mapping techniques are utilized in a series of exercises of increasing complexity. Standard methods are utilized for observing, describing, interpreting and mapping rock units and their structure.</td>
<td></td>
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<tr>
<td>SW3990</td>
<td>3990</td>
<td>Independent Study</td>
<td>Independent research on social work topic. Requires 3.0 GPA and completed independent study form.</td>
<td></td>
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<tr>
<td>ED6775</td>
<td>6775</td>
<td>MA: CIS Curr &amp; Mth II</td>
<td>This course explores computer information science as a discipline that encourages inquiry, creativity and collaboration. This includes lesson planning, assessment, differentiation, technology and content for computer science courses.</td>
<td></td>
</tr>
<tr>
<td>PLS4270</td>
<td>4270</td>
<td>Urban Policy Analysis</td>
<td>(Also listed as URS 4270). Study of selected urban problems and their relationship to the political environment. Use of simulation gaming to understand community development processes.</td>
<td></td>
</tr>
<tr>
<td>MGT7660</td>
<td>7660</td>
<td>Creativity &amp; Innovation</td>
<td>This is a course designed to make you start thinking differently about your organizational life. It is intended to make you think differently about yourself, those with whom you work, and the organizational environment in order to facilitate increased creativity and innovation. The course is built around three main themes: personal reflection and improvement, enhancing individual creativity, and managing people and organizations for creativity and innovation.</td>
<td></td>
</tr>
<tr>
<td>ATH3600</td>
<td>3600</td>
<td>Special Topics Archae</td>
<td>Surveys of various specialized aspects of archaeology.</td>
<td></td>
</tr>
<tr>
<td>CS5260</td>
<td>5260</td>
<td>CS Numerical Methods</td>
<td>Numerical methods for the sciences using modern programming languages. Solution of linear and nonlinear equations, symmetric matrix eigenvalue problems, interpolation and least squares. Initial value and boundary value problems for representative systems governed by ordinary and partial differential equations are also solved numerically.&lt;br&gt;Department Managed Prerequisite(s): (Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D or Undergraduate level ME 1020 Minimum Grade of D) and (Undergraduate level MTH 2350 Minimum Grade of D or Undergraduate level MTH 2530 Minimum Grade of D)&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D or Undergraduate level MTH 1250 Minimum Grade of D or Undergraduate level MTH 2530 Minimum Grade of D or Undergraduate level MTH 2530 Minimum Grade of D)</td>
<td></td>
</tr>
<tr>
<td>STT7440</td>
<td>7440</td>
<td>Multivariate Analysis</td>
<td>Matrix theory, multivariate distributions, likelihood ratio tests, MANOVA, principal component and factor analysis, canonical correlation analysis, finite mixture models and the EM algorithm, and classification techniques.&lt;br&gt;Department Managed Prerequisite(s): (Undergraduate level MTH 2320 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D)&lt;br&gt;Department Managed Prerequisite(s): (Undergraduate level MTH 2320 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D)&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level MTH 2320 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D)</td>
<td></td>
</tr>
<tr>
<td>PHL3120</td>
<td>3120</td>
<td>History of Ethics</td>
<td>Study of the development of ethical philosophy through a detailed investigation of such figures as Plato, Aristotle, Hobbes, Butler, Hume, Kant, Mill, and Nietzsche. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>PSY8420</td>
<td>8420</td>
<td>Mental Workload</td>
<td>This course reviews the major theories and practices of mental workload measurement, including a review of the research relevant to them. Applications to human factors will be discussed.</td>
<td></td>
</tr>
<tr>
<td>CHM1060L</td>
<td>1060L</td>
<td>Chemistry: Materials Lab</td>
<td>Required laboratory for CHM 1060.</td>
<td></td>
</tr>
<tr>
<td>CEG6970</td>
<td>6970</td>
<td>Independent Study in CEG</td>
<td>Independent study in computer engineering.</td>
<td></td>
</tr>
<tr>
<td>HLT3400</td>
<td>3400</td>
<td>Concepts of Pharmacology</td>
<td>Fundamental pharmacologic principles of physiological responses to drugs, therapeutic outcomes, and potential drug interactions. Prepares for critical thinking in application of pharmacotherapy principles. Non-nursing majors may take the course with instructor permission.</td>
<td></td>
</tr>
<tr>
<td>PTX6002</td>
<td>6002</td>
<td>Intro to Cell Biology</td>
<td>This course will explore the organization, function, and structures of eukaryotic cells. Fundamentals of subcellular organization and biological chemistry will provide a foundation for understanding the molecular and energetic aspects of cells. The course will then cover membrane function as well as cellular signaling pathways with a particular emphasis on understanding how these pathways are useful targets of pharmaceutical agents.</td>
<td></td>
</tr>
<tr>
<td>PSY9050</td>
<td>9050</td>
<td>Quasi-Experimentation</td>
<td>Issues in design and analysis for field settings are reviewed. These issues quasi-experimental design, validity, and statistical analysis.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASL4010</td>
<td>4010</td>
<td>Aspects of Deaf Life</td>
<td>ASL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6420</td>
<td>6420</td>
<td>Paleo of Vert/Plants</td>
<td>EES</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS4230</td>
<td>4230</td>
<td>Public Budgeting</td>
<td>URS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO3600</td>
<td>3600</td>
<td>Geo-Spatial Mapping</td>
<td>GEO</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE6100</td>
<td>6100</td>
<td>Learning Environment</td>
<td>CTE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO4890</td>
<td>4890</td>
<td>Special Topics</td>
<td>GEO</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR6110</td>
<td>6110</td>
<td>FR Instruc Practicum I</td>
<td>FR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH8210</td>
<td>8210</td>
<td>Public Health ILE I</td>
<td>PPH</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES2510L</td>
<td>2510L</td>
<td>Earth Systems Lab</td>
<td>EES</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6830</td>
<td>6830</td>
<td>Sex, Drugs, &amp; HIV</td>
<td>SOC</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPM7010</td>
<td>7010</td>
<td>Current Issues Aner Spts</td>
<td>SPM</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NEU3400</td>
<td>3400</td>
<td>Adv Neuro Lab Tech Micro</td>
<td>NEU</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3310</td>
<td>3310</td>
<td>Orchester Music Ed Meth</td>
<td>MUS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI8020</td>
<td>8020</td>
<td>Human Development</td>
<td>PSI</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7210</td>
<td>7210</td>
<td>Orthoped &amp; Prosthet Eng</td>
<td>BMS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSC7900</td>
<td>7900</td>
<td>Found of Ntwrk Sec</td>
<td>PSC</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH2420</td>
<td>2420</td>
<td>Princ of Emergency Mgmt</td>
<td>KNH</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisites</td>
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<tr>
<td>CHM2120L</td>
<td>Organic Chemistry Lab II</td>
<td>2</td>
<td>Laboratory illustrations of CHM 2120 lecture material and techniques of preparative organic chemistry.</td>
<td></td>
</tr>
<tr>
<td>PLS6860</td>
<td>Model United Nations Sem</td>
<td>3</td>
<td>Model UN is an experiential learning opportunity built around this seminar, with intensive training in research, public speaking, bargaining and conflict resolution. Culminates at the national conference in New York, simulating the U.N.</td>
<td></td>
</tr>
<tr>
<td>CHM7620</td>
<td>Mass Spectrometry</td>
<td>3</td>
<td>Current topics in mass spectrometry are discussed with emphasis on theory and state-of-the-art instrumentation and ionization methods.</td>
<td></td>
</tr>
<tr>
<td>TH1020</td>
<td>Intro Technical Theatre</td>
<td>3</td>
<td>Theory and practice of theatre technology including study of theatre organization, scenery construction, lighting and sound technology, and backstage operating systems.</td>
<td></td>
</tr>
<tr>
<td>ME4880</td>
<td>Powder Processing of Mat</td>
<td>3</td>
<td>Fundamental metallurgy and ceramic science of powder processing techniques. Details of current powder processing technology and methods. Hands-on laboratory experience with both metal and ceramic materials. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D.</td>
<td>Department Managed Prerequisite(s): Graduate level ME 2700 Minimum Grade of D; Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 3750 Minimum Grade of D</td>
</tr>
<tr>
<td>EE6210L</td>
<td>Digital Comm Lab</td>
<td>4</td>
<td>Laboratory supporting EE 6210. Students will experience hands on learning in lab environment.</td>
<td></td>
</tr>
<tr>
<td>ENG4470</td>
<td>Post-Colonial Lit</td>
<td>3</td>
<td>Intensive study of post-colonial literature from diverse regions of the global South. Intended to develop critical perspectives on historical periods, genres, language use, thematic concerns, and global trends. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>PSY6230</td>
<td>Problem Solving Cap</td>
<td>3</td>
<td>Writing and oral communication intensive seminar integrating knowledge on problem solving and reasoning.</td>
<td></td>
</tr>
<tr>
<td>RHB4020</td>
<td>Career Assessment</td>
<td>3</td>
<td>Provides training in comprehensive vocational and career evaluation and assessment strategies.</td>
<td>Integrated Writing course.</td>
</tr>
<tr>
<td>EDL9330</td>
<td>Instructional Leadership</td>
<td>3</td>
<td>Provides opportunities to explore the topic of instruction in depth and to apply knowledge and strategies to the process of instructional improvement.</td>
<td></td>
</tr>
<tr>
<td>SOC5310</td>
<td>Globalization &amp; Soc Clng</td>
<td>3</td>
<td>Explanations of social change in modern societies. Emphasis on identification of sources of change, effects of change throughout society, major trends, and issues for the future.</td>
<td></td>
</tr>
<tr>
<td>ENG2130</td>
<td>Research and Argument</td>
<td>3</td>
<td>Adapts principles introduced in ENG 1100 and equivalents to writing for professional audiences in the sciences and lay readers. Stresses argument, research, and effective use of source materials. Students may use any of the following courses to satisfy the requirements of the Core, but only one may count: ENG 2100, ENG 2110, ENG 2120, ENG 2130, ENG 2140.</td>
<td></td>
</tr>
<tr>
<td>PLS6300</td>
<td>Am Govt and Politics Sem</td>
<td>3</td>
<td>Selected topics related to American government politics and processes. Emphasis on readings, discussion and research. Topics vary.</td>
<td></td>
</tr>
<tr>
<td>PHY7040</td>
<td>Philosophy of Physics</td>
<td>3</td>
<td>The various overarching ideas in physics that give unity to the subject. Historical bases of these ideas are included. Topics include but are not limited to the experimental basis of physics, fundamental limits on measuring and of knowing, the physical nature of the cosmos, determinism, relativity, the quantum - continuum transition, the nature of space and time, entropy (H theorem), Bell's theorem, Liouville's theorem.</td>
<td></td>
</tr>
<tr>
<td>FR6920</td>
<td>Fren Occupation Films</td>
<td>3</td>
<td>Analysis of films made during and after the Occupation of France, such as L'Oeil de Vichy, Le Dernier Métro, Lacombe Lucien, L'Armée des Ombres, Au revoir les enfants, etc.</td>
<td></td>
</tr>
<tr>
<td>KNH1980A</td>
<td>Zumba</td>
<td>4</td>
<td>Fundamental skills and knowledge of Zumba. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>EE2020L</td>
<td>Intro to Mechatronic Lab</td>
<td>3</td>
<td>Laboratory that assists with the students abilities to perform level design of integrated systems, program an embedded microcontroller, analyze and design basic sensor interface circuits, analyze and design driver circuits, and to develop simple programs that control actuators.</td>
<td></td>
</tr>
<tr>
<td>EE7170</td>
<td>Tgt Tracking Data Assoc</td>
<td>3</td>
<td>Multitarget tracking and data association. Linear and nonlinear state estimation. Maneuvering targets. Single target and multitarget tracking in clutter. Joint probabilistic data association filter. Multiple hypothesis and distributed multitarget tracking. Track-to-track fusion. Department Managed Prerequisite(s): Graduate level EE 7610 Minimum Grade of D.</td>
<td>Department Managed Prerequisite(s): Graduate level EE 7610 Minimum Grade of D or Undergraduate level EE 7610 Minimum Grade of D</td>
</tr>
<tr>
<td>PHY1110R</td>
<td>Principles of Physics I Rec</td>
<td>0</td>
<td>Required recitation for PHY 1110.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>URS7050</td>
<td>Quantitative Analysis</td>
<td>3</td>
<td>Survey of the fundamental concepts for statistical analysis of public affairs research. Emphasis on characteristics of distributions and random variables, diagnostic techniques, the tests of assumptions of each analysis and multiple and logistic regression.</td>
<td></td>
</tr>
<tr>
<td>URS6430</td>
<td>Administrative Law</td>
<td>3</td>
<td>Examines the constitutional foundations of administrative law and the legal context of federal, state and local administrative rule making and adjudication.</td>
<td></td>
</tr>
<tr>
<td>ME7500</td>
<td>Advanced Thermodynamics</td>
<td>3</td>
<td>Thermodynamics is studied from both the classical (macroscopic) and statistical (microscopic) viewpoints with emphasis on statistical thermodynamics. Property relationships, Maxwell relations, partition functions, distribution functions, kinetic theory and the Boltzmann transport equation are discussed.</td>
<td></td>
</tr>
<tr>
<td>ENG7020</td>
<td>Meth &amp; Mat: Rhet/Writt</td>
<td>3</td>
<td>Introduction to research in the field of composition and rhetoric. Emphasis on finding and using library resources, surveying research designs, and understanding and reporting research in the human sciences.</td>
<td></td>
</tr>
<tr>
<td>BME3940</td>
<td>Biomedical Engineering</td>
<td>1</td>
<td>Biomedical engineering internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 2nd year courses as listed in the program guide. Minimum of 10 hours per week for each credit hour registered. A minimum total of 450 hours of work is required for 3 credits of technical elective credit.</td>
<td></td>
</tr>
<tr>
<td>SAA7600</td>
<td>Intro Stu Aff Higher Ed</td>
<td>3</td>
<td>An overview of the history, philosophy, organization, and structure of student services. Various student affairs functions and professional competencies are presented. Current and future trends and issues in student affairs are considered.</td>
<td></td>
</tr>
<tr>
<td>KNH1740</td>
<td>Volleyball</td>
<td>1</td>
<td>Fundamental skills and knowledge of Volleyball. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>ISE4711</td>
<td>Optimization Methods</td>
<td>3</td>
<td>Introductory course on Operations Research/Management Science/System Engineering focusing on the deterministic models, especially linear, integer and network flow models and practical solution techniques.</td>
<td></td>
</tr>
<tr>
<td>FIN7810</td>
<td>Special Studies Fin</td>
<td>1</td>
<td>Intensive reading or research in a selected field of advanced finance.</td>
<td></td>
</tr>
<tr>
<td>EE6170L</td>
<td>Digital Cont Sys Lab</td>
<td>1</td>
<td>Laboratory supporting EE 6170. Students will experience hands on learning in lab environment. Application and testing of control systems theory with electromechanical systems.</td>
<td></td>
</tr>
<tr>
<td>BME6610</td>
<td>Clinical Engr Dev World</td>
<td>3</td>
<td>Students will be exposed to the culture of a developing country; learn how to live and interact with the local people; gain an appreciation for a culture different from their own and of the limited technical resources of educational and healthcare facilities in a developing country; learn how to install and repair medical and other technical equipment with simple tools.</td>
<td></td>
</tr>
<tr>
<td>EDS4570</td>
<td>Inst &amp; Behav Managmnt IS</td>
<td>3</td>
<td>Prepares intervention specialists and other professionals to meet the instructional and behavioral management demands particular to working with individuals with exceptionalities, including those with severe emotional disturbance. Fifteen hours field experience required.</td>
<td></td>
</tr>
<tr>
<td>GER3310</td>
<td>Survey of German Lit</td>
<td>3</td>
<td>Historical survey of German literature from its beginning to the present. 331: Literature of the Middle Ages, Renaissance, Reformation, Enlightenment, and Storm and Stress. 332: Classicism, Romanticism, Poetic Realism, and Modern Period.</td>
<td></td>
</tr>
<tr>
<td>GR6510</td>
<td>Readings in Greek Philos</td>
<td>3</td>
<td>Plato, Xenophon, Aristotle, Epicurus, Epictetus, and Marcus Aurelius. Topics include pre-Socratics and the development of philosophical vocabulary, the sophistic movement, the Cynic tradition, and the development of popular philosophy. Titles vary.</td>
<td></td>
</tr>
<tr>
<td>KNH1440B</td>
<td>Phys Ed for Disabled</td>
<td>3</td>
<td>Fundamental skills and knowledge of Physical Education for Disabled. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>NUR7304</td>
<td>Ind Resour Mgmt Nag Ad</td>
<td>3</td>
<td>Fiscal management concepts for nurse administrators. Content focuses on financial reporting function, resource allocation, managerial issues related to finance, financial planning and control in nursing administration.</td>
<td></td>
</tr>
<tr>
<td>ATH4900</td>
<td>Ind Research in Anthro</td>
<td>3</td>
<td>Independent reading and research under the supervision of a faculty member in the department of anthropology.</td>
<td></td>
</tr>
<tr>
<td>HST3450</td>
<td>Middle Eastern History</td>
<td>3</td>
<td>Studies in Middle Eastern history, for example a survey of a sub-field or a specific topic. Topics vary.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
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<tr>
<td>MKT4150</td>
<td>Marketing</td>
<td>3</td>
<td>Focuses on theory, application and practice associated with viral marketing activities. Goals for students are to identify the major components of a viral marketing campaign, understand how the viral marketing approach is being strategically by advertisers and marketers and understand the psychological motivations associated with content sharing.</td>
<td>UG</td>
</tr>
<tr>
<td>EDT8150</td>
<td>Educational Technology</td>
<td>3</td>
<td>Students will use elements of instructional design and storyboarding techniques to translate instruction into various types of multimedia professional development workshops.</td>
<td>GR</td>
</tr>
<tr>
<td>BMS8170</td>
<td>Biomedical Sciences</td>
<td>2</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
<td>GR</td>
</tr>
<tr>
<td>PSY2920</td>
<td>Psychology</td>
<td>3</td>
<td>An overview of hormone-behavior relationship in humans and animals. Topics include sexual differences, puberty, reproductive behavior, parental behavior, aggression, and cognition.</td>
<td>UG</td>
</tr>
<tr>
<td>EC7550</td>
<td>Economics</td>
<td>3</td>
<td>Teaches students how alternative incentive systems and resource allocations affect the health services sector. Emphasis on current institutional arrangements, empirical studies, and policy alternatives.</td>
<td>GR</td>
</tr>
<tr>
<td>EDS6550</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Familiarizes intervention specialist graduate students with WSU and Internet research resources, APA writing style, professional standards and qualitative and quantitative research methods and analysis.</td>
<td>GR</td>
</tr>
<tr>
<td>CNL7230</td>
<td>Counseling</td>
<td>3</td>
<td>Explores best practice and use of instruments used in counseling assessment and evaluation. Additional topics include statistical concepts, reliability, validity, ethical applications, social cultural factors.</td>
<td>GR</td>
</tr>
<tr>
<td>BIO5810</td>
<td>Biology</td>
<td>3</td>
<td>Tools-oriented approach to bioinformatics emphasizing DNA data structure, string representation in PERL, data searches, pairwise alignments, substitution patterns, protein structure prediction and modeling, proteomics, and use of web-based bioinformatic tools.</td>
<td>GR</td>
</tr>
<tr>
<td>EES6140</td>
<td>Sedimentary Petrology</td>
<td>4</td>
<td>Optical properties of common minerals. Survey of sedimentary rocks in hand sample, thin section and field occurrence.</td>
<td>GR</td>
</tr>
<tr>
<td>BMS7260</td>
<td>Biomedical Sciences</td>
<td>2</td>
<td>(Also listed as CHM 6610.) Step-growth and chain-growth polymerization in homogeneous and heterogeneous media; properties of commercial polymers.</td>
<td>GR</td>
</tr>
<tr>
<td>CEG3110</td>
<td>Computer Engineering</td>
<td>3</td>
<td>This course introduces software testing strategies and established best practices for testing software in a systematic manner. Focus is on planning, writing, and executing a software test plan along with documented results. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>EES6210</td>
<td>Earth &amp; Environmental Sciences</td>
<td>4</td>
<td>Study of the three-dimensional distribution of rock units. Deformational structures such as folds, faults, joints, cleavage, foliation, and lineation and their superposition are used to unravel the history of deformation, and ultimately to understand the stress fields that produced the observed strain and structures. Tectonics is the structural evolution of regional patterns of deformation at the scale of mountain ranges. Lecture/lab combined; 4 credit hours</td>
<td>GR</td>
</tr>
<tr>
<td>BME3211R</td>
<td>Biomedical Engineering</td>
<td>0</td>
<td>Required recitation for BME 3211.</td>
<td>UG</td>
</tr>
<tr>
<td>ECE7500</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Assessment and evaluation of infants through age 8, and the use of assessment data to inform decision making.</td>
<td>GR</td>
</tr>
<tr>
<td>BIO3100</td>
<td>Biology</td>
<td>3</td>
<td>The study of biological processes of microorganisms, with emphasis on microorganisms that cause human disease (pathogens).</td>
<td>UG</td>
</tr>
<tr>
<td>ENG4750</td>
<td>English</td>
<td>3</td>
<td>Develops linguistic analysis skills to help students recognize, analyze, and remediate written and spoken grammatical errors in ESL/EFL instructional contexts. Also focuses on pedagogical aspects of grammar instruction to nonnative speakers of English.</td>
<td>GR</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>CNL6010 CNL Theory and Practice</td>
<td>CNL Theory</td>
<td>6</td>
<td>Presents an overview of the major theoretical approaches to counseling. Key concepts, therapeutic processes, and techniques will be examined. Opportunity will also be available for discussion of philosophical and ethical issues in counseling.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4960 Fetal Behavior Capstone</td>
<td>PSY Psycho</td>
<td>4</td>
<td>Communication-intensive seminar integrating knowledge on fetal behavior including both normal and abnormal (teratological) development. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS6280 Combinatorics and Graphs</td>
<td>CS Computer Science</td>
<td>4</td>
<td>Topics include: permutations, combinatorics, generating functions, recurrence relations, and Polya's theory of counting, methods, results, and algorithms of graph theory, with emphasis on graphs as mathematical models applicable to organizational and industrial situations.&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level MTH 2310 Minimum Grade of D and (Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CS 2170 Minimum Grade of D)&lt;br&gt;Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS8960 PhD Candidacy Exam</td>
<td>CS Computer Science</td>
<td>1</td>
<td>Examination that tests for depth of understanding in a chosen computer science and computer engineering research area. Includes a written proposal for a Ph.D. topic and an oral examination, that is open to the public.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG5000 Business Writing</td>
<td>ENG English</td>
<td>3</td>
<td>Written business and organizational communication; rhetorical demands of writing in professional settings; attention to various forms including short reports and informal oral presentations. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1210B Fencing: Intermediate</td>
<td>KNH Kinesiology &amp; Health</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Fencing: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2000 PSY Elective Topics</td>
<td>PSY Psychology</td>
<td>1</td>
<td>A variable elective topic in psychology. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH2240 Applied Calculus</td>
<td>MTH Mathematics</td>
<td>4</td>
<td>Functions (including exponential and logarithmic functions), limits, derivatives and rates of change, applications of derivatives including graphing and optimization, and indefinite and definite integrals with applications. Credit will not be given for MTH 2240 for students who have already successfully completed MTH 2300.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS5810 Intro to Bioinformatics</td>
<td>CS Computer Science</td>
<td>3</td>
<td>Tools-oriented approach to bioinformatics emphasizing DNA data structure, string representation in PERL, data searches, pairwise alignments, substitution patterns, protein structure prediction and modeling, proteomics, and use of web-based bioinformatic tools.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3900 Readings in Anthropology</td>
<td>ATH Anthropology</td>
<td>3</td>
<td>Independent, intensive reading in a specific area of anthropology done under the guidance of a faculty member. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4140 Code and Learning Cap</td>
<td>PSY Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge within conditioning and learning. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2001 PSY Elective Topics</td>
<td>PSY Psychology</td>
<td>1</td>
<td>A variable elective topic in psychology. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS6320 Managing Volunteer Org</td>
<td>URS Urban Affairs</td>
<td>3</td>
<td>Prepares students to design, plan and evaluate volunteer programs. Topics address management principles including program design, recruitment, retention, training, and placement and assessment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MP3330 Studies in Film Theory</td>
<td>MP Motion Affairs</td>
<td>3</td>
<td>Intensive study in film theory. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS7220 MPA Directed Study</td>
<td>URS Urban Affairs</td>
<td>3</td>
<td>If previous knowledge and/or experience in a selected core course is demonstrated, URS 7220 may be substituted for the selected core course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6040 Word St &amp; Phon: Int Spec</td>
<td>ED Education</td>
<td>3</td>
<td>Knowledge of how people learn printed words, how to assess that knowledge and deliver the instructional procedures with appropriate materials.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH5800 Sp Topics in Anth Method</td>
<td>ATH Anthropology</td>
<td>3</td>
<td>Selected topics concerning the training of graduate students in current methodologies used in cultural, biological or archaeological anthropology. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4450 Petroleum Geology</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>History and legal aspects of the petroleum business including lease acquisition, assignment of working interests, overriding royalties, etc. Petroleum geology, oil and gas exploration techniques, geology of oil producing regions, well drilling, well log interpretation, enhanced oil and gas recovery, CO2 sequestration, production equipment, oil and gas sales and marketing.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SAA7640 Prog Eval/Assmt High Ed</td>
<td>SAA Student Affairs</td>
<td>3</td>
<td>Studies theories, models, and techniques for evaluation of SAHE programs, and student organizations. Focus on a systematic approach to designing, integrating and appraising the success of SAHE programs.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3650 MTHs &amp; Mtrls Music K-6</td>
<td>MUS Music</td>
<td>3</td>
<td>Materials and methods for teaching general music in grades K-6. Laboratory session required in addition to regular class meeting times to develop skills in sight singing and in the use of traditional classroom instruments.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Instructor/Designations</td>
<td>Type</td>
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<tr>
<td>Spring 2021</td>
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<tr>
<td>IDL7110</td>
<td>7110</td>
<td>Learning in a Digital World</td>
<td>IDL Instructor and course designers are introduced to the relationship between learning theory and teaching practices that incorporate digital technologies to enhance student learning. This course provides an introduction to the research and science of learning.</td>
<td>Lecture</td>
</tr>
<tr>
<td>ECE5020</td>
<td>5020</td>
<td>ECEG 1F LA-SS Instr</td>
<td>ECE Pedagogy and content knowledge of content area reading through the study of grades 4 and 5 social studies.</td>
<td>Lecture</td>
</tr>
<tr>
<td>NUR7001</td>
<td>7001</td>
<td>Role Dev &amp; Ldrshp NUR</td>
<td>This course focuses on understanding and synthesizing concepts and theories that will facilitate professional role development and leadership in advanced nursing roles.</td>
<td>Lecture</td>
</tr>
<tr>
<td>URS6440</td>
<td>6440</td>
<td>Adv. GIS Apps URS</td>
<td>Study of advanced geo-spatial analysis techniques using ArcView and ArcGIS software. GIS analysis and technology used to describe spatial elements of public and private sector development issues and to forecast change.</td>
<td>Lecture</td>
</tr>
<tr>
<td>BIO4810</td>
<td>4810</td>
<td>Bioinformatic Algorithms BIO Biology</td>
<td>Theory-oriented approach to application of contemporary algorithms to bioinformatics. Graph theory, complexity theory, dynamic programming and optimization techniques are introduced for solving specific computational problems in molecular genetics.</td>
<td>Lecture</td>
</tr>
<tr>
<td>EE4620L</td>
<td>4620L</td>
<td>Dig Integ Ckt Design Lab EE Electrical Engineering</td>
<td>Realizations, testing and evaluation of digital integrated circuits with particular emphasis on programmable logic devices. Department Managed Prerequisite(s): Undergraduate level EE 2000 Minimum Grade of C and Undergraduate level EE 2000L Minimum Grade of C and Undergraduate level EE 3210 Minimum Grade of C or Undergraduate level CEG 3320 Minimum Grade of D.</td>
<td>Lab</td>
</tr>
<tr>
<td>ED4750</td>
<td>4750</td>
<td>MA Int Pt II: Std Teach ED Education</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in a grades P-12 classroom.</td>
<td>Internship</td>
</tr>
<tr>
<td>FAS3310</td>
<td>3310</td>
<td>Animal Science Industry FAS Food and Agricultural Systems</td>
<td>Fundamentals of livestock production, including feeding and nutrition, reproductive physiology, selective breeding, health, managemen, and marketing of major and minor species. Current and projected business developments in the livestock industry.</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS8990</td>
<td>8990</td>
<td>Dissertation Defense CS Computer Science</td>
<td>Examination on the Ph.D. dissertation. The written dissertation is submitted and must be successfully defended in the oral exam that is conducted by the dissertation committee and open to the public.</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ATH6010</td>
<td>6010</td>
<td>Kinship/Social Structure ATH Anthropology</td>
<td>Introduction to the study of kinship as the basis for understanding social structure cross-culturally. Starts with the basic tools for classic kinship analysis, and proceeds to discuss the central role kinship plays in stateless societies, how state formation utilized kinship analogs, and how kinship relates to issues of household organization, class and gender relations.</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS6850</td>
<td>6850</td>
<td>Foundations of AI CS Computer Science</td>
<td>Problem-solving methods in artificial intelligence (AI) with emphasis on heuristic approaches. Topics include knowledge representation, search, intelligent agents, planning, learning, natural language processing, logic, inference, robotics, and case-based reasoning. 3 hours lecture, 2 hours lab.</td>
<td>Lecture</td>
</tr>
<tr>
<td>PSI9570</td>
<td>9570</td>
<td>Trauma Theor Asmt Interv PSI Professional Psychology</td>
<td>Introduction to the psychology of trauma, covering history of trauma theories, etiology, neurobiological impact of trauma across the life-span, types of trauma, symptoms, diagnosis, and treatment of trauma-responses in adults and children, particularly post-traumatic stress disorder (PTSD) within a cultural context. Management of countertransference reactions and recognition, prevention, and treatment of compassion fatigue and vicarious traumatization in the clinician will be emphasized.</td>
<td>Lecture</td>
</tr>
<tr>
<td>MLB4010</td>
<td>4010</td>
<td>Topics in Med Lab Sci MLB Medical Laboratory Science</td>
<td>Advanced topics in medical laboratory science of current interest. Topics vary.</td>
<td>Lecture</td>
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<tr>
<td>CHI4030</td>
<td>4030</td>
<td>Multimedia Chinese CHI Chinese</td>
<td>Advanced Chinese language learning by exploration of cultural products in a variety of media and authentic online materials. Taught in Chinese. Department Managed Prerequisite(s): Undergraduate level CHI 3020 Minimum Grade of D or Undergraduate level CHI 3110 Minimum Grade of D or Undergraduate level CHI 3210 Minimum Grade of D</td>
<td>Lecture</td>
</tr>
<tr>
<td>BME7310</td>
<td>7310</td>
<td>Adv Ergon BME Biomedical Engineering</td>
<td>Design of workstations and hard-tools using physiology and biomechanics approach. Ergonomic analysis of assembly, machining and manual material handling operations. Practical solutions and real world case studies to improve productivity and reduce workers compensation costs. Department Managed Prerequisite(s): Graduate level IIE 6310 Minimum Grade of D</td>
<td>Lecture</td>
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<tr>
<td>ENG3310</td>
<td>3310</td>
<td>American Texts to 1890 ENG English</td>
<td>Representative works of American writers from the colonial era until 1890.</td>
<td>Lecture</td>
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<td>CEG4230</td>
<td>4230</td>
<td>Intro Robotics</td>
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<td>Spring</td>
<td>SW2700</td>
<td>2700</td>
<td>Intro to Social Work</td>
<td>SW</td>
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<tr>
<td>Spring</td>
<td>MUE6500</td>
<td>6500</td>
<td>Symphonic Band</td>
<td>MUE</td>
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<tr>
<td>Spring</td>
<td>EE6440</td>
<td>6440</td>
<td>Electronic Integ Systems</td>
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<tr>
<td>Spring</td>
<td>SPN4830</td>
<td>4830</td>
<td>Business in L. America</td>
<td>SPN</td>
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<td>ISG7300</td>
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<td>Practicum in Gifted Ed</td>
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<td>EDT7210</td>
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<td>Org Data &amp; Collections</td>
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<td>Spring</td>
<td>PSY4510</td>
<td>4510</td>
<td>Cross-Cul Psy Cap</td>
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<td>Spring</td>
<td>ABS7600</td>
<td>7600</td>
<td>Graduate Seminar in ABS</td>
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<td>NUR7305</td>
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<td>Org. Theory &amp; Dec Mk</td>
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<td>ATR7750</td>
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<td>Clinical Practice IV</td>
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<td>MKT4690</td>
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<td>Big Data and Predictions</td>
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<td>SPN5440</td>
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<td>Spanish Amer Culture</td>
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<td>EE5000</td>
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<td>Solid State EE Materials</td>
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<td>SPM7030</td>
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<td>Perspectives on Educ</td>
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<td>BME4704</td>
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<td>Advanced Medical Imaging</td>
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<td>EDT7240</td>
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<td>Teach 21st Century Skill</td>
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<td>EGR4980</td>
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<td>Special Topics in EGR</td>
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<td>Chamber Orchestra</td>
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<td>Criminal Justice System</td>
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<td>Cell Biology</td>
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<td>PHL5010</td>
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<td>Ancient Philosophy</td>
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<td>SOC4600</td>
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<td>Sociology of Sexuality</td>
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<td>Personality Research Mth Lab</td>
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<td>Course Code</td>
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<tr>
<td>ENG7510</td>
<td>7510</td>
<td>TESOL: Speak/Listen</td>
<td>ENG</td>
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<td>FAS2610</td>
<td>2610</td>
<td>Livestock Management</td>
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<td>AES2210</td>
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<td>Studies in Selected Subj</td>
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<td>Teaching Physical Sci</td>
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<td>Leading Teams</td>
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<td>20th Cent German Drama</td>
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<td>TH1050</td>
<td>1.050</td>
<td>Ballet Mus Theatre II</td>
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</tr>
<tr>
<td>MIS3840</td>
<td>3.840</td>
<td>Data Vis for Business</td>
<td>MIS</td>
<td>3</td>
</tr>
<tr>
<td>EDS7210</td>
<td>7.210</td>
<td>Practicum: Int Spec Mid/Mod</td>
<td>EDS</td>
<td>2</td>
</tr>
<tr>
<td>PLS6180</td>
<td>6.180</td>
<td>Politics and Ethics</td>
<td>PLS</td>
<td>3</td>
</tr>
<tr>
<td>ME6940</td>
<td>6.940</td>
<td>Mech &amp; Mat EGR Intern</td>
<td>ME</td>
<td>3</td>
</tr>
<tr>
<td>FAS3320</td>
<td>3.320</td>
<td>Agronomic Industry &amp; Bus</td>
<td>FAS</td>
<td>3</td>
</tr>
<tr>
<td>PSY6620</td>
<td>6.620</td>
<td>Ergonomics Capstone</td>
<td>PSY</td>
<td>3</td>
</tr>
</tbody>
</table>

*GR* = Graduate; *LE* = Lecture; *UG* = Undergraduate; *ITL* = Industrial & Ballet Mus, *Lecture*; *LL* = Lecture/Lab; *Combination*; *OL* = Organizational Leadership; *ER* = Ergonomics; *PSY* = Psychology; *GER* = German; *TH* = Theatre; *ST* = Studio; *MG* = Management; *Spec* = Special; *Mid/Mod* = Intermediate/Moderate; *EGR Intern* = Department internship course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Title</th>
<th>Department</th>
<th>Type</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY2110</td>
<td>2110</td>
<td>Human Sexuality PSY Psychology</td>
<td>PSY</td>
<td>LE</td>
<td>3</td>
<td>Survey of the diversity of human sexual behavior including the psychological, physiological, social, and emotional basis of sexual behavior.</td>
</tr>
<tr>
<td>ACC7500</td>
<td>7500</td>
<td>Graduate Project in ACC Accountancy</td>
<td>ACC</td>
<td>LE</td>
<td>3</td>
<td>Student teams work with client organizations on accounting projects and present results to client personnel and a panel of accounting professionals.</td>
</tr>
<tr>
<td>ENG3430</td>
<td>3430</td>
<td>Women and Literature ENG English</td>
<td>ENG</td>
<td>LE</td>
<td>3</td>
<td>Representative works by and about women of diverse backgrounds across major literary periods. Examines traditions in women’s writing, pervasive representations of women in literature, and the mutually constitutive relationship between literature and identity.</td>
</tr>
<tr>
<td>MUS4410</td>
<td>4410</td>
<td>Lecture Recital MUS Music</td>
<td>MUS</td>
<td>LR</td>
<td>1</td>
<td>Public performance and lecture on a topic relevant to the performer.</td>
</tr>
<tr>
<td>FAS2100</td>
<td>2100</td>
<td>Farm Business Management FAS Food and Agricultural Systems</td>
<td>FAS</td>
<td>LL</td>
<td>3</td>
<td>Fundamentals of farm business management. Principles of management, cost analysis, agricultural enterprise budgets, farm budgets, cash flow analysis, and organizational structure and planning in agricultural operations.</td>
</tr>
<tr>
<td>SPN3990</td>
<td>3990</td>
<td>Studies in Selected Subj SPN Spanish</td>
<td>SPN</td>
<td>LE</td>
<td>1</td>
<td>Problems, approaches, and topics in the field of Spanish. Topics vary. <code>&lt;b&gt;</code> Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D <code>&lt;b&gt;</code></td>
</tr>
<tr>
<td>REL4100</td>
<td>4100</td>
<td>Seminar on Judaism REL Religion</td>
<td>REL</td>
<td>SE</td>
<td>3</td>
<td>Topics Vary. Integrated Writing course.</td>
</tr>
<tr>
<td>PTX7011</td>
<td>7011</td>
<td>Thesis Develop Workshop PTX Pharmacology/Toxicology</td>
<td>PTX</td>
<td>UG</td>
<td>1</td>
<td>Students will learn how to develop thesis proposals and how to present research projects. Students will learn about requirements and receive instructions for preparing oral proposals. A step-by-step program will guide students toward assembling complete presentations.</td>
</tr>
<tr>
<td>DMV2010</td>
<td>2010</td>
<td>DMV Registration DMV DMV Consortium</td>
<td>DMV</td>
<td>UG</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>HUM7800</td>
<td>7800</td>
<td>Independent Study HUM Humanities</td>
<td>HUM</td>
<td>IS</td>
<td>1</td>
<td>Individual study in the humanities under the direction of a faculty supervisor. Generally requires regular conferences with supervisor and research writing.</td>
</tr>
<tr>
<td>FR3120</td>
<td>3120</td>
<td>French Conv and Society FR French</td>
<td>FR</td>
<td>LE</td>
<td>3</td>
<td>Practice in oral use of French emphasizing the culture of the French-speaking world. Taught in French. <code>&lt;b&gt;</code> Department Managed Prerequisite(s): Undergraduate level FR 2020 Minimum Grade of D or AP French Language 4 <code>&lt;b&gt;</code></td>
</tr>
<tr>
<td>BMB6020</td>
<td>6020</td>
<td>Research Perspectives BMB Biochem &amp; Molecular Biology</td>
<td>BMB</td>
<td>GR</td>
<td>3</td>
<td>Lecture/reading course to acquaint new graduate students with the research being carried out by the faculty in the Biochemistry and Molecular Biology program.</td>
</tr>
<tr>
<td>CTE6000</td>
<td>6000</td>
<td>Pre-Serv Wkshp for CTE CTE Career and Technical Education</td>
<td>CTE</td>
<td>GR</td>
<td>6</td>
<td>For beginning CTE teachers with occupational experience and limited or no formal training in an education setting. Explores teaching pedagogy, knowledge and skills required for new role as CTE educator.</td>
</tr>
<tr>
<td>REL5320</td>
<td>5320</td>
<td>Islam in Modern World REL Religion</td>
<td>REL</td>
<td>GR</td>
<td>3</td>
<td>Study of how Muslim thinkers and theologians have responded to the challenges of the modern era.</td>
</tr>
<tr>
<td>EES4600</td>
<td>4600</td>
<td>Limnology EES Earth &amp; Environmental Sciences</td>
<td>EES</td>
<td>PR</td>
<td>3</td>
<td>Study of the morphological, physical, chemical, and biological characteristics of lakes, bogs, and watersheds. Includes one week of lecture on main campus and one week of field study in northern Wisconsin.</td>
</tr>
<tr>
<td>EE6800L</td>
<td>6800L</td>
<td>Special Topics in EE Lab EE Electrical Engineering</td>
<td>EE</td>
<td>GR</td>
<td>1</td>
<td>Laboratory for EE 6800.</td>
</tr>
<tr>
<td>BIO4470</td>
<td>4470</td>
<td>Pop and Comm Ecology BIO Biology</td>
<td>BIO</td>
<td>UG</td>
<td>3</td>
<td>Use of deterministic and stochastic models to characterize populations and quantitative methods for analyzing community structure, composition, and dynamics.</td>
</tr>
<tr>
<td>KNH1300A</td>
<td>1300A</td>
<td>Hiking KNH Kinesiology &amp; Health</td>
<td>KNH</td>
<td>UG</td>
<td>1</td>
<td>Fundamental skills and knowledge of Hiking. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>GR4530</td>
<td>4530</td>
<td>Readings Greek Hist Biog GR Greek</td>
<td>GR</td>
<td>UG</td>
<td>3</td>
<td>Herodotus, Thucydides, Xenophon, Polybius, and Plutarch. Topics include methods of composition, influences on historiography from the sophists and philosophers, the development of Greek historical writing, and supplemental evidence from inscriptions and nonliterary sources. Titles vary.</td>
</tr>
<tr>
<td>AES4700</td>
<td>4700</td>
<td>ECL Lab AES Aerospace Studies</td>
<td>AES</td>
<td>UG</td>
<td>0</td>
<td>Students who have completed Professional Officer coursework but are not yet eligible to graduate enroll in this course to remain proficient until they graduate.</td>
</tr>
<tr>
<td>ED3700</td>
<td>3700</td>
<td>Comm Arts for Ed ED Education</td>
<td>ED</td>
<td>UG</td>
<td>3</td>
<td>Examine, design, and present speeches and media projects for a variety of purposes, occasions, and audiences.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN6120</td>
<td>6120</td>
<td>SPN</td>
<td>SPN Practicum II</td>
<td>SPN</td>
<td>Spanish</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1540</td>
<td>1540</td>
<td>KNH</td>
<td>Self Defense for Women</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6422</td>
<td>6422</td>
<td>CEG</td>
<td>Secure Computing Pract</td>
<td>CEG</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB7660</td>
<td>7660</td>
<td>BMB</td>
<td>Systems Biology</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4080</td>
<td>4080</td>
<td>PLS</td>
<td>Radical Black Thought</td>
<td>PLS</td>
<td>Political Science</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7860</td>
<td>7860</td>
<td>HST</td>
<td>Historic Preservation</td>
<td>HST</td>
<td>History</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL7000</td>
<td>7000</td>
<td>CNL</td>
<td>Cnslng Thry&amp;Tec Pret Hlth Prof</td>
<td>CNL</td>
<td>Counseling</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4000</td>
<td>4000</td>
<td>PSY</td>
<td>PSY Capstone Topics</td>
<td>PSY</td>
<td>Psychology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS4250</td>
<td>4250</td>
<td>MIS</td>
<td>IT Infrastructures</td>
<td>MIS</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7500</td>
<td>7500</td>
<td>BMS</td>
<td>Molecular Biochemistry I</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG5110</td>
<td>5110</td>
<td>CEG</td>
<td>Intro Software Testing</td>
<td>CEG</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8630</td>
<td>8630</td>
<td>EDL</td>
<td>Principal Program Exit</td>
<td>EDL</td>
<td>Educational Leadership</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI8410</td>
<td>8410</td>
<td>PSI</td>
<td>Group Psychotherapy</td>
<td>PSI</td>
<td>Professional Psychology</td>
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<tr>
<td>Spring 2021</td>
<td>EDL9850</td>
<td>9850</td>
<td>EDL</td>
<td>Org Dynamics</td>
<td>EDL</td>
<td>Educational Leadership</td>
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<tr>
<td>Spring 2021</td>
<td>STT2640</td>
<td>2640</td>
<td>STT</td>
<td>Elementary Statistics</td>
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<td>Statistics</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS8630</td>
<td>8630</td>
<td>BMS</td>
<td>Prin Biomedical Research</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Course Description</td>
<td>Type</td>
<td>Code</td>
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<tr>
<td>PSY6720</td>
<td>Select Visual Attn Cap</td>
<td>PSY</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on selective visual attention.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>CEG5970</td>
<td>Independent Study in CEG</td>
<td>CEG</td>
<td>1</td>
<td>Independent study in computer engineering topics.</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>CHM4610</td>
<td>Synthetic Polymer Chem</td>
<td>CHM</td>
<td>2</td>
<td>Step-growth and chain-growth polymerization in homogeneous and heterogeneous media; properties of commercial polymers.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>EDL9140</td>
<td>Adv Coaching Mentoring</td>
<td>EDL</td>
<td>3</td>
<td>Advanced studies in developing school leaders' essential knowledge, skills, and dispositions for effective coaching and mentoring focused on improving teaching and learning.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>IHE7310</td>
<td>Adv Ergon</td>
<td>IHE</td>
<td>3</td>
<td>Design of workstations and hand-tools using physiology and biomechanics approach. Ergonomic analysis of assembly, machining and manual material handling operations. Practical solutions and real world case studies to improve productivity and reduce workers compensation costs. Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>FR3320</td>
<td>Francophone African Stds</td>
<td>FR</td>
<td>3</td>
<td>Introduction to the culture and literature from French-speaking Africa. Taught in French. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level FR 3210 Minimum Grade of D.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>FR5900</td>
<td>Foreign Lang Institute</td>
<td>FR</td>
<td>1</td>
<td>For teachers of French. Intensive experience designed, through total immersion, to improve language skills (conversation and composition) and increase awareness of French civilization and contemporary culture.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>NUR4890</td>
<td>Ldhsp &amp; Mngm't</td>
<td>NUR</td>
<td>3</td>
<td>Theories and strategies of leadership and management for the practice of professional nursing. Safety and quality improvement initiatives and improving quality patient outcomes. Leadership concepts, skills, and decision-making in nursing care, team coordination, and participation in evidence-based improvement/change projects. Fieldwork required.</td>
<td>UG</td>
<td>PR</td>
</tr>
<tr>
<td>CHI3810</td>
<td>Elem Chinese Instruct</td>
<td>CHI</td>
<td>1</td>
<td>Chinese students assist elementary course instructors in conducting classes. Taught in Chinese. Department Managed Prerequisite(s): Undergraduate level CHI 3020 Minimum Grade of B or (Undergraduate level CHI 3110 Minimum Grade of B and Undergraduate level CHI 3210 Minimum Grade of B).</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>SOC5300</td>
<td>Social Organization</td>
<td>SOC</td>
<td>3</td>
<td>Theories and analysis of social organization in its historical and present context. Emphasis on the interrelationship between individuals, the family, and other institutions.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>ATH2500</td>
<td>Cultural Art Hlth Care</td>
<td>ATH</td>
<td>3</td>
<td>Basic concepts, ideas, issues and debates in cultural anthropology, using examples from Asia, Africa, Latin America, Native America and the Middle East. Explores diverse ways humans relate to one another and reveals cultural milieus, political configurations, ways of speaking and environments people have used to shape their world. For students who intend to become health care professionals. Credit for ATH 2500 will not be given to students who have completed CST 2410.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>TH4580</td>
<td>Singing Mus Theatre VIII</td>
<td>TH</td>
<td>2</td>
<td>Private singing lessons for musical theatre.</td>
<td>UG</td>
<td>ST</td>
</tr>
<tr>
<td>ED6360</td>
<td>MCE Science: Curr &amp; Mthd</td>
<td>ED</td>
<td>3</td>
<td>Curriculum and materials for teaching middle level science with emphasis on using an integrated constructivist approach to science teaching. Includes development of appropriate objectives, planning, resources and facilities, evaluation, and trends in science education.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>ART4690</td>
<td>Adv Printmgk: Scripting</td>
<td>ART</td>
<td>3</td>
<td>Development of personalized concepts and individual aesthetic expression in printmaking. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 3690 Minimum Grade of D.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>DAN3220</td>
<td>Jazz/Theatre Dance III</td>
<td>DAN</td>
<td>2</td>
<td>Diversified styles and techniques of jazz/musical theatre dancing. Emphasis on continued development of intricate rhythms, sophisticated syncopation, complex coordination, musicality, and variation of style. Focus on increasing body strength, flexibility, and kinesthetic awareness in the jazz idiom.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>URS7040</td>
<td>Human Resources in PA</td>
<td>URS</td>
<td>3</td>
<td>Examines personnel functions such as job evaluation, recruitment and selection, performance appraisal, compensation, training, labor relations, and affirmative action.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>EC7810</td>
<td>Research in Economics I</td>
<td>EC</td>
<td>1</td>
<td>Titles vary. Intensive reading or research in selected fields of advanced economics. Department Managed Prerequisite(s): Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5100 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>SPN5430</td>
<td>Spanish Culture</td>
<td>SPN</td>
<td>3</td>
<td>A comprehensive review of the diverse cultures of Spain.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Prerequisites</td>
<td></td>
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</tr>
<tr>
<td>NUR7803</td>
<td>FNP Practicum</td>
<td>NUR</td>
<td>6</td>
<td>Intensive clinical focus provides students the opportunity to apply relevant theories, concepts, and</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>EES6540L</td>
<td>Subsurface Fluid Flow Lab</td>
<td>EES</td>
<td>0</td>
<td>Research findings to clinical care. Stresses development of clinical competence required in delivering</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>ECE7700</td>
<td>Lang Dev and Comm Disorder</td>
<td>ECE</td>
<td>3</td>
<td>Speech and language development, causes and effects of communication disorders, speech and language</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>ME6120</td>
<td>Finite Element Analysis</td>
<td>ME</td>
<td>3</td>
<td>Fundamentals of finite element analysis as a general numerical method for the solution of boundary</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>ECE7620</td>
<td>Det Est Opt Filt Theory</td>
<td>EE</td>
<td>3</td>
<td>Binary detection with single/multiple observations, linear minimum mean-square error filtering: Wiener</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>ED3050</td>
<td>MCE Gen Science Instr</td>
<td>ED</td>
<td>3</td>
<td>Methods for teaching middle level science pertinent to the Ohio Learning Standards with emphasis on</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>BMB8990</td>
<td>Biochemistry Research</td>
<td>BMB</td>
<td>0.5</td>
<td>Original research in a BMB faculty laboratory. Variable credit hours .5 - 15.</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>CEG4970</td>
<td>Independent Study</td>
<td>CEG</td>
<td>1</td>
<td>Independent study in computer engineering topics.</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>BIO4600L</td>
<td>Population Genetics Lab</td>
<td>BIO</td>
<td>0</td>
<td>Required laboratory for BIO 4600.</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>STT4620</td>
<td>Theory of Statistics II</td>
<td>STT</td>
<td>4</td>
<td>Provides feminist understanding of women's economic roles and contributions in the context of</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>EC6450</td>
<td>Political Econ of Women</td>
<td>EC</td>
<td>3</td>
<td>Intensive clinical focus provides students the opportunity to apply relevant theories, concepts, and</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>DOS9060</td>
<td>Adv Rch Methods II</td>
<td>DOS</td>
<td>3</td>
<td>Developing research techniques in basic and inferential statistics using statistical computing software</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>CEG8930</td>
<td>PhD Qualifying Exam</td>
<td>CEG</td>
<td>1</td>
<td>Examination that tests understanding of the fundamentals necessary to begin concentrated study in a</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>CEG6322</td>
<td>VLSI Design</td>
<td>CEG</td>
<td>3</td>
<td>(Also listed as CEG 654.) Introduction to VLSI system design. Topics include CMOS devices and circuit</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>MKT4650</td>
<td>MkT Analytics</td>
<td>MKT</td>
<td>3</td>
<td>Analysis of online and internal company data, with an emphasis on application and recommendations.</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>BIO3200</td>
<td>Intro to Immunology</td>
<td>BIO</td>
<td>3</td>
<td>Principles and concepts of immunology. Organization of the immune system. Cellular and molecular</td>
<td>Required laboratory for EES 6540.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Level</td>
<td>Type</td>
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<tr>
<td>SOC2200</td>
<td>Social Problems</td>
<td>SOC</td>
<td>3</td>
<td>Analyzes how social problems are identified, legitimated and addressed in contemporary society. Uses major theoretical perspectives to evaluate and analyze social problems. Determines proposals for addressing them, and compares social theories in a cross-cultural context. Considers the impact of social structure on generating social problems and the role of social movements in constructing and resolving social problems.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>PHL2050</td>
<td>Philosophy/Big Questions</td>
<td>PHL</td>
<td>3</td>
<td>Introduction to philosophy through the exploration and critical examination of some of the following perennial, philosophical questions: Does God exist? Are we free? What is happiness? Why be ethical? What is knowledge? What is the meaning of life? Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>EDS4590</td>
<td>Assessment Skills for IS</td>
<td>EDS</td>
<td>3</td>
<td>Administration and interpretation of formal and informal educational assessment instruments and communication of assessment data to parents, students, and colleagues. Fifteen hours of field experience required. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>PSY4740</td>
<td>Space and Time Capstone</td>
<td>PSY</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on space and time. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>HST7600</td>
<td>Intro Archives Manuscript</td>
<td>HST</td>
<td>3</td>
<td>Fundamental problems, theoretical principles, techniques, and practical administration of archives and manuscripts; the importance of records in the modern information age and the relationship of archives administration and records management; history of archives.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>KNH1060</td>
<td>Backpacking</td>
<td>KNH</td>
<td>1</td>
<td>Fundamental skills and knowledge of Backpacking. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>EES3680</td>
<td>Fuel Cell Sci and Tech</td>
<td>ME</td>
<td>3</td>
<td>This course will cover the fundamentals, technologies, and applications of various types of fuel cells. The Fundamentals covered are thermodynamic prediction, electrolyte conduction, and electrode kinetics. The types of fuel cells covered are polymer electrolyte fuel cell, solid oxide fuel cell, and fuel cell stack.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>PPH7130</td>
<td>Geospatial Tech in P H</td>
<td>PPH</td>
<td>3</td>
<td>This course prepares students to use geospatial technologies within the framework of Public Health issues. Topics covered include geographic information systems (GIS), global positioning system (GPS), remote sensing, spatial analysis, project design, data management, basic cartographic principles, case studies and a project. At completion, students have a baseline understanding of how to incorporate geospatial technologies into real-world Public Health matters.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>EE4600L</td>
<td>UAV Flight Control Lab</td>
<td>EE</td>
<td>1</td>
<td>Laboratory supporting EE 4600/6600. Students will experience hands on learning in lab environment. Designing, implementing, and testing autonomous UAV flight control systems. Department Managed Prerequisite(s): Undergraduate level EE 4130 Minimum Grade of D and Undergraduate level EE 4130L Minimum Grade of D and Undergraduate level CEG 1160 Minimum Grade of D and Undergraduate level CEG 2170 Minimum Grade of D)</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>MTH2001</td>
<td>Orientation Seminar Math &amp;Stat</td>
<td>MTH</td>
<td>1</td>
<td>An overview of programs in mathematics and statistics, internship opportunities, career options, department activities, and undergraduate research opportunities.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>BIO7990</td>
<td>Literature Critique</td>
<td>BIO</td>
<td>1</td>
<td>Independent project to write a critical review of literature on a specific topic. Graded pass/unsatisfactory.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Type</td>
<td>Lecture</td>
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<tr>
<td>Spring</td>
<td>MUS2510</td>
<td>2510</td>
<td>MusicianSHIP III</td>
<td>MUS</td>
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</tr>
<tr>
<td>Spring</td>
<td>SW6420</td>
<td>6420</td>
<td>Con Foc F &amp; C: Pol</td>
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<tr>
<td>Spring</td>
<td>SOM703</td>
<td>703</td>
<td>Year 3 Medical Study</td>
<td>SOM</td>
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<tr>
<td>Spring</td>
<td>CHI5110</td>
<td>5110</td>
<td>Chinese Conversation</td>
<td>CHI</td>
<td></td>
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<tr>
<td>Spring</td>
<td>ATH2100L</td>
<td>2100L</td>
<td>Lab in Biological Anthro</td>
<td>ATH</td>
<td></td>
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<tr>
<td>Spring</td>
<td>IDL3110</td>
<td>3110</td>
<td>Digital Teaching Tools</td>
<td>IDL</td>
<td></td>
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<tr>
<td>Spring</td>
<td>NUR7733</td>
<td>7733</td>
<td>NNP Practice I</td>
<td>NUR</td>
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<tr>
<td>Spring</td>
<td>LAT6550</td>
<td>6550</td>
<td>Readings in Roman Politi</td>
<td>LAT</td>
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<tr>
<td>Spring</td>
<td>EES6470</td>
<td>6470</td>
<td>Astronomy K-12 Teachers</td>
<td>EES</td>
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<td>Lecture</td>
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<tr>
<td>Spring</td>
<td>CHM44170</td>
<td>4170</td>
<td>Applied Chemical Spectro</td>
<td>CHM</td>
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<tr>
<td>Spring</td>
<td>PSY3090</td>
<td>3090</td>
<td>Psy of Health Behavior</td>
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<td>Lecture</td>
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<td>Spring</td>
<td>BME1950</td>
<td>1950</td>
<td>Undergrad Resrch BME 1</td>
<td>BME</td>
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<td>Spring</td>
<td>ART3760</td>
<td>3760</td>
<td>Subtractive Proc</td>
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<td>Spring</td>
<td>PSY9035</td>
<td>9035</td>
<td>Math Models of Cognition</td>
<td>PSY</td>
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<td>Lecture</td>
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<tr>
<td>Spring</td>
<td>HST7825</td>
<td>7825</td>
<td>Exhibit Design Technolog</td>
<td>HST</td>
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<tr>
<td>Spring</td>
<td>ART2060</td>
<td>2060</td>
<td>Drawing I</td>
<td>ART</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>MKT4300</td>
<td>4300</td>
<td>Entrepreneurship</td>
<td>MKT</td>
<td></td>
<td>Lecture</td>
</tr>
</tbody>
</table>

**Notes:**
- **UG**: Undergraduate
- **GR**: Graduate
- **MD**: Medical
- **CL**: Clinical
- **LE**: Laboratory
- **LB**: Lab
- **ST**: Studio
<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>CRN</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Type</th>
<th>Code</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Spring 21</td>
<td>PPH7110</td>
<td>7110</td>
<td>Public Health Research</td>
<td>3</td>
<td>This class will examine a range of research designs in the context of methods commonly used in public health departments and community based organizations. Students will also learn data analysis skills using SPSS needed to analyze data collected. Students will conduct a research project using a secondary data set.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EED3650</td>
<td>3650</td>
<td>Phonics &amp; Word Study P-5</td>
<td>3</td>
<td>An in-depth analysis of how children in P-5 learn phonics and word study, and use this knowledge while reading and writing.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EDL9900</td>
<td>9900</td>
<td>Practicum II: Supt</td>
<td>3</td>
<td>The practicum provides significant opportunities for candidates to synthesize and apply the knowledge and skills identified in the district-level standards through sustained, standards-based work in real settings.</td>
<td>GR</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 21</td>
<td>KNH1100</td>
<td>1100</td>
<td>Bowling</td>
<td>1</td>
<td>Fundamental skills and knowledge of Bowling. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EDS4730</td>
<td>4730</td>
<td>IS Student Teaching</td>
<td>9</td>
<td>Candidates, under the direct supervision of an experienced intervention specialist, are assigned to a school for intensive teaching experience in grades K-12 special education for students with mild/moderate needs.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUS4200</td>
<td>4200</td>
<td>Opera Production and Coaching</td>
<td>2</td>
<td>For advanced singers in the production of opera; culminates in public performance. Individual coaching for major role assignment. Study and involvement in technical areas of production: set design, building, properties, and costumes. May include participation in Dayton Opera productions.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>TH3330</td>
<td>3330</td>
<td>Computer Graphics TH I</td>
<td>3</td>
<td>Introduction to computer-aided drafting programs. Basic skills developed through several projects including orthogonal projections, designer's elevations, groundplans and light plots.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>NUR4990</td>
<td>4990</td>
<td>Nur Honors Ind Study</td>
<td>1</td>
<td>Under the guidance of a faculty member, students implement and complete the honors project proposed in NUR 4980 by taking variable credits of 1-4 semester hours which can be repeated over several semesters. Program requires a minimum total of 2 semester hours but may be extended to a maximum of 4 semester hours.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EGR4980</td>
<td>4980</td>
<td>Special Topics in EGR</td>
<td>1</td>
<td>Special topics in Engineering and Computer Science.</td>
<td>UG</td>
<td>RE</td>
<td>Recitation</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSY2710</td>
<td>2710</td>
<td>Psycholinguistics</td>
<td>3</td>
<td>Physical, neurological, and cognitive processes underlying the acquisition, production, and application of language. Examine contributions of psychology, linguistics, computer science, and neuroscience to this discipline.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>CRT1010</td>
<td>1010</td>
<td>Intro Community Corr</td>
<td>3</td>
<td>Origins, organization and trends in current traditional and non-traditional (e.g., electronic monitoring, house arrest, day-treatment, boot-camp, fines) community corrections.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EE7200</td>
<td>7200</td>
<td>Modern Control II</td>
<td>3</td>
<td>Analysis and design of digital control systems using the state approach, multirate digital control systems, and digital state observer and microprocessor control. Department Managed Prerequisite(s): Graduate level EE 7020 Minimum Grade of D-/B-.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>PN7220</td>
<td>7220</td>
<td>Ion Channels</td>
<td>3</td>
<td>This course explores the role of ion channels in a variety of cell types with an emphasis on both electrophysiological and biochemical methods for evaluation of channel function.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>DMV9999</td>
<td>9999</td>
<td>For Administrative Use Only</td>
<td>0</td>
<td>Department Managed Prerequisite(s): Graduate level EE 7020 Minimum Grade of D-/B-.</td>
<td>PP</td>
<td>OT</td>
<td>Other</td>
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<tr>
<td>Spring 21</td>
<td>OIS2500</td>
<td>2500</td>
<td>Internship</td>
<td>3</td>
<td>Practical experience coordinated by faculty, student, and business representative.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SOC5810</td>
<td>5810</td>
<td>Medical Sociology</td>
<td>3</td>
<td>Introduction to and understanding of the social dimensions of health and illness. Consideration of patterns of disease, along with the organization, provision and delivery of medical services.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PHIL5120</td>
<td>5120</td>
<td>History of Ethics</td>
<td>3</td>
<td>Study of the development of ethical philosophy through a detailed investigation of such figures as Plato, Aristotle, Hobbes, Butler, Hume, Kant, Mill, and Nietzsche.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUE4440</td>
<td>4440</td>
<td>University Brass Choir</td>
<td>1</td>
<td>A performance-oriented group which provides students with chamber brass music experience. Students learn elements of ensemble execution, professionalism, brass music history, orchestral styles, and sound production. Audition required.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EES3620</td>
<td>3620</td>
<td>General Environ Health</td>
<td>3</td>
<td>Relationship of physical/chemical/biotic environments to design and operation of systems and procedures employed to maintain and promote healthful human environments. Emphasizes food sanitation, solid waste, institutional housing/recreational sanitation, and vector control.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credit Hours</td>
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<td>Description</td>
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<tr>
<td>EDL9870</td>
<td>9870</td>
<td>Admin Leadership in Comm</td>
<td>Focuses on the development of leadership skills in relationship to individual and organizational communications, group processes, conflict management, decision making, and problem solving. Participants study and practice the principles of change.</td>
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<tr>
<td>ES7650</td>
<td>7650</td>
<td>Comp Tools/Strategies</td>
<td>This is a survey course of modern computational tools and strategies used in sequence. 3-D structure and functional analysis of biomolecules. Students will gain hands on &quot;laboratory&quot; experience with key software and strategies.</td>
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<tr>
<td>CLS4810</td>
<td>4810</td>
<td>Independent Study</td>
<td>Faculty-directed, individualized study on student-selected topics. Limited to majors and advanced students. Permission of department and a minimum 3.0 GPA required.</td>
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<tr>
<td>ME6680</td>
<td>6680</td>
<td>Experimental Nanoscience</td>
<td>This course will provide a series of laboratory experiments similar to the state-of-the-art R&amp;D in nanotechnology and nanoscience. The experiments include 1) fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; 2) characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses etc; and 3) computational modeling of nanoscale physical phenomena.</td>
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<tr>
<td>CEG4230L</td>
<td>4230</td>
<td>Intro Robotics Lab</td>
<td>First exposure to plant moduling and controller design to realize elementary control strategies in a laboratory environment.</td>
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<tr>
<td>ENG5520</td>
<td>5520</td>
<td>Writing Pedagogy for ILA</td>
<td>Introduction to writing pedagogy for Integrated Language Arts in grades 4-12 with an emphasis on writing processes and improving writing skills.</td>
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<tr>
<td>ENG7900</td>
<td>7900</td>
<td>Continuing Registration</td>
<td>Limited to students who have completed coursework toward the degree but who must maintain registered status, e.g. in any quarter prior to graduation in which the department is affording some service, such as advising toward and evaluating the graduate portfolio, reading a thesis, or giving advice on the thesis after completion of all other requirements of course work and research.</td>
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<tr>
<td>SW6610</td>
<td>6610</td>
<td>SW Field Ed I</td>
<td>Completion of 300 hours of field education. Provides opportunity for students to engage in selected and organized activities with clients that apply the social work skills, knowledge, and values learned in the classroom. Meeting with a range of clients, encountering diversity, and growing self-awareness and abilities to help clients of various backgrounds.</td>
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<tr>
<td>MUE6480</td>
<td>6480</td>
<td>Univ Clarinet Choir</td>
<td>Performs music of all time periods and styles originally composed for this instrumentation as well as transcriptions of masterworks.</td>
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<tr>
<td>RST2910</td>
<td>2910</td>
<td>Regional Studies MidEast</td>
<td>Introduction to the history, peoples, cultures, and geography of the Middle East from Mauritania to Pakistan from the seventh century to the present. Integrated Writing course.</td>
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<tr>
<td>EDL8510</td>
<td>8510</td>
<td>Adv Rrch Design Analy</td>
<td>Individual and group study of ongoing applied educational research.</td>
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<tr>
<td>IT2050</td>
<td>2050</td>
<td>Presentation Skills</td>
<td>Professional speaking and electronic presentation skills.</td>
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<tr>
<td>CHM7500</td>
<td>7500</td>
<td>Intro to Quantum Chem</td>
<td>Introduction to the ideas and mathematical techniques of quantum theory, including applications to some simple chemical systems.</td>
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<tr>
<td>SM4000</td>
<td>4000</td>
<td>Senior Capstone in SS</td>
<td>A survey course designed as a capstone to the Integrated Science Studies program. Invited speakers in the natural sciences will discuss their work. Students will evaluate scientific literature and present independent research projects. Integrated Writing course.</td>
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<tr>
<td>EE7580L</td>
<td>7580</td>
<td>CMOS Msd Sig IC Des Lab</td>
<td>Required lab for EE 7580.</td>
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<tr>
<td>FR4940</td>
<td>4940</td>
<td>Cuisine et Film</td>
<td>Study of traditional French gastronomy, from the way it is portrayed in film to the way it is prepared, served and enjoyed. Hands on cooking classes complement film and cultural analysis.</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Course Description</td>
<td>Term</td>
<td>Type</td>
<td>Location</td>
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<tr>
<td>Spring 2021</td>
<td>BIO6240</td>
<td>6240</td>
<td>Disease Ecology and Evolution</td>
<td>The course will cover topics such as mathematical theory on host-pathogen interactions; empirical studies of human, wildlife, insect and plant host interactions; emerging infectious diseases; effects on host behavior; host-parasite co-evolution; multi-host and multi-pathogens systems; and anthropogenic effects on disease. The greatest depth of understanding has been achieved at the level of population interactions, specifically interactions between a host and a pathogen. The broader goal of the course is to provide a comprehensive and up-to-date understanding of the causes and consequences of infectious diseases at levels from individual organisms to the globe.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>WGS5800</td>
<td>5800</td>
<td>St in Selected Subjects</td>
<td>Issues, approaches, and topics in the field of women's studies. Titles vary. Topics vary.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CHM2120R</td>
<td>2120R</td>
<td>Organic Chemistry II Recitation</td>
<td>Required recitation for CHM 2120.</td>
<td>Spring 2021</td>
<td>Recitation</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>CEG4350</td>
<td>4350</td>
<td>OS Internals and Design</td>
<td>Overview of operating systems internals. File-system usage and design, process usage and control, virtual memory, multi user systems, access control. Course projects use C++ language.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>KNH7550</td>
<td>7550</td>
<td>Biomechanics</td>
<td>Biomechanics and functional anatomy of the human body, with application of biophysical principles to normal joint structure and function, pathomechanics, and clinical analysis of posture, gait, and other movements. Includes instruction in measurement methods.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EES4370</td>
<td>4370</td>
<td>Seismic Processing</td>
<td>Theory and practice of computer processing of seismic reflection data. Deals with seismic data formats, seismic data manipulation, filtering, velocity analysis, stacking and migration, all in both land and marine contexts. Hands-on experience with industry-standard software packages.</td>
<td>Spring 2021</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
<td>ISE3221</td>
<td>3221</td>
<td>Adv Stats for Engineers</td>
<td>Continuation of ISE 2211 engineering statistics as applied to testing, development, and manufacturing and quality assurance. Expands on the concepts of sampling theory, design of experiments, hypothesis testing and statistical inference, simple and multiple linear regression, non-parametric analysis, analysis of variance, and process improvement (statistical process control and six sigma techniques). The use of an interactive statistics and graphics application software is emphasized.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EC4400</td>
<td>4400</td>
<td>Regional and Urban Econ</td>
<td>Regional economic analysis in a policy and planning context. Interdisciplinary approach to analyze the economics of location, inter-regional trade, regional development, urban regions, and growth strategies.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>STT6620</td>
<td>6620</td>
<td>Theory of Statistics II</td>
<td>Point estimation, properties of estimators, sufficiency and completeness, single parameter interval estimation, hypothesis testing, most powerful and UMP tests, likelihood ratio tests, maximum likelihood estimation (mle) and computational approaches to determine mle’s. The multivariate normal distribution, random vectors and covariance matrices; linear and quadratic forms. The general linear model, Cochran-Fisher theorem. Hypothesis testing and confidence regions for a vector of parameters. &lt;b&gt;Department Managed Prerequisite(s):&lt;/b&gt; Graduate level STT 6610 Minimum Grade of D.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>LAT1010</td>
<td>1010</td>
<td>Beginning Latin I</td>
<td>Introduction to methods and grammatical concepts necessary for further study in Latin.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>TH3150</td>
<td>3150</td>
<td>Singing for the Actor V</td>
<td>Private singing lessons for acting, theatre studies and dance majors only.</td>
<td>Spring 2021</td>
<td>Studio</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>MTH2800</td>
<td>2800</td>
<td>Writing Math Proofs</td>
<td>Introduction to logic and techniques used in mathematical proofs. Students gain experience in constructing proofs as they study sets, relations, functions, algebraic structures, and the properties of real numbers. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EDL8900</td>
<td>8900</td>
<td>Practicum II: Principal</td>
<td>Provides experience in school administration. Candidates perform administrative tasks under the supervision of a licensed school administrator.</td>
<td>Spring 2021</td>
<td>Internship</td>
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<tr>
<td>Spring 2021</td>
<td>ED4080</td>
<td>4080</td>
<td>Phonics and Word Study</td>
<td>In-depth analysis of how people learn the printed word, and how to assess that knowledge with appropriate phonics and phonics-related assessment and materials. Students will apply knowledge through phonics lesson design, delivery and analysis.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ITA1010</td>
<td>1010</td>
<td>Beginning Italian I</td>
<td>Communicative introduction to Italian. Study of the vocabulary and structure of the Italian language; practice in speaking, listening, reading, and writing.</td>
<td>Spring 2021</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>NUR3440C</td>
<td>3440C</td>
<td>Nur Wom&amp;Childbearr Fam Clin</td>
<td>Required clinical for NUR 3440.</td>
<td>Spring 2021</td>
<td>Clinical</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Instructor/Department</td>
<td>Type</td>
<td>Term</td>
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<tr>
<td>SOC4420</td>
<td>3</td>
<td>Ethnographic Methods</td>
<td>SOC Sociology</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>BIO4420</td>
<td>3</td>
<td>Adv Molecular Biology</td>
<td>BIO Biology</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>PSY2830</td>
<td>3</td>
<td>Chemical Dependency</td>
<td>PSY Psychology</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>MUS1120</td>
<td>3</td>
<td>Vocal Technique and Diction</td>
<td>MUS Music</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>SPN5110</td>
<td>3</td>
<td>Spanish Conversation I</td>
<td>SPN Spanish</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>ENG4880</td>
<td>3</td>
<td>Fiction Writing Capstone</td>
<td>ENG English</td>
<td>UG</td>
<td>Seminar</td>
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<tr>
<td>KNH1520</td>
<td>2</td>
<td>SCUBA: Master Diver</td>
<td>KNH Kinesiology &amp; Health</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>IHE6300</td>
<td>3</td>
<td>Fund of HFE</td>
<td>IHE Industrial &amp; Hum Fac Engr</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>DMV9999</td>
<td>0</td>
<td>Administrative Use Only</td>
<td>DMV DMV Consortium</td>
<td>UG</td>
<td>Other</td>
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<tr>
<td>PLS4824</td>
<td>3</td>
<td>Local/City Internship</td>
<td>PLS Political Science</td>
<td>UG</td>
<td>Internship</td>
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<tr>
<td>FIN7120</td>
<td>3</td>
<td>Investing in Securities</td>
<td>FIN Finance</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>EES4760</td>
<td>3</td>
<td>Air Quality Management</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ED6510</td>
<td>3</td>
<td>Found Spec Ed</td>
<td>EDS Education - Special Education</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ASM7773</td>
<td>2</td>
<td>Fund Aerospace Med III</td>
<td>ASM Aerospace Medicine</td>
<td>GR SE</td>
<td>Seminar</td>
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<tr>
<td>HEA9280</td>
<td>3</td>
<td>Internship in Higher Ed</td>
<td>HEA Higher Education Admin</td>
<td>GR</td>
<td>Internship</td>
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<tr>
<td>SW6160</td>
<td>0</td>
<td>Grad SW Research I</td>
<td>SW Social Work</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>PHY1060</td>
<td>3</td>
<td>Astronomy</td>
<td>PHY Physics</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>MUS2420</td>
<td>3</td>
<td>Comp NW Culture: Music</td>
<td>MUS Music</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Code</td>
<td>Section</td>
<td>Name</td>
<td>Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>ENG7420</td>
<td>7420</td>
<td>Seminar: Wtg Practices</td>
<td>Reading, practice, research and discussion of writing practices in academic and non-academic genres for pedagogical purposes. Focus on topics such as ethnography, multi-genre writing, new media literacies.</td>
<td>3</td>
<td></td>
<td>GR, SE, Seminar</td>
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<tr>
<td>CNL9530</td>
<td>9530</td>
<td>Case Form Interven Supv</td>
<td>This course reviews clinical decision making skills in counselor practice and emphasizes using sound, clinically defensible diagnostic assessment and clinical interventions supported in current outcome research. Advanced case conceptualization and counselor supervision also presented.</td>
<td>3</td>
<td></td>
<td>GR, LE, Lecture</td>
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<tr>
<td>ED7800</td>
<td>7800</td>
<td>Literacy Research Frmwk</td>
<td>Develop a knowledge and understanding of literacy research and research methods. Written literacy research projects to include: introduction, research purpose and questions, review of literature, and methodology.</td>
<td>3</td>
<td></td>
<td>GR, LE, Lecture</td>
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<tr>
<td>BIO4480</td>
<td>4480</td>
<td>Advanced Cell Techniques</td>
<td>Analysis of cellular proteins. Hands-on experience manipulating human cells in culture, extracting cellular proteins, transplanting cells, and performing immunoblotting and immunofluorescence techniques.</td>
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<td></td>
<td>UG, LL, Lecture/Lab Combination</td>
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<tr>
<td>CS3190</td>
<td>3190</td>
<td>Prog Lang Workshop</td>
<td>Independent study in one of several programming languages (e.g., Python, C#, Ruby). Students learn the language solve a set of assigned programming problems.</td>
<td>1</td>
<td></td>
<td>UG, IS, Independent Study</td>
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<tr>
<td>FMS1310</td>
<td>1310</td>
<td>Intro to Film Studies</td>
<td>Examines critical approaches of authorship, genre, presentation, and narrative, with an emphasis on the language of cinema, basic film concepts, techniques, and terminology. Topics include spectactorship, ideology, social and political context, celebrity culture, ambits of meaning, and modes of criticism.</td>
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<td></td>
<td>UG, LE, Lecture</td>
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<tr>
<td>CNL7800</td>
<td>7800</td>
<td>Sys Tech in Mar &amp; Fam</td>
<td>This course focuses on teaching systemic interventions and problem solving in the process of resolving marriage and family related concerns.</td>
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<td></td>
<td>GR, LL, Lecture/Lab Combination</td>
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<tr>
<td>ART3180</td>
<td>3180</td>
<td>Art Theory &amp; Criticism</td>
<td>Historical surveys and intensive studies of art theory and criticism. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level ART 2110 Minimum Grade of D and Undergraduate level ART 2120 Minimum Grade of D. Variable title/variable credit hour course to allow for special topic exploration that occurs during the MSAT program.</td>
<td>3</td>
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<td>UG, LE, Lecture</td>
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<tr>
<td>ATR7900</td>
<td>7900</td>
<td>AT Special Topics</td>
<td>Variable title/variable credit hour course to allow for special topic exploration that occurs during the MSAT program.</td>
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<td>GR, SE, Seminar</td>
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<tr>
<td>SW6730</td>
<td>6730</td>
<td>Child Welfare I</td>
<td>Framework for categorizing child welfare problems. Historical and current examination of legislation, policies, programs, and services to address child welfare needs, including the role of the child welfare worker.</td>
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<td></td>
<td>GR, LE, Lecture</td>
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<tr>
<td>ATH3110</td>
<td>3110</td>
<td>Forensic Anthropology</td>
<td>Survey of scientific identification of human remains in forensic contexts. Students learn to assess age, sex, stature, and other features of the skeleton and recover critical evidence from crime scenes including time of death and trauma.</td>
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<td></td>
<td>UG, LE, Lecture</td>
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<tr>
<td>EC5440</td>
<td>5440</td>
<td>Prob in Ec Development</td>
<td>This course explores the problems of economic development in the third world and in economies in transition from socialism. Topics include hunger, unemployment, environmental degradation, privatization, gender, and ethnicity.</td>
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<td>GR, LE, Lecture</td>
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<tr>
<td>IHE6711L</td>
<td>6711L</td>
<td>Optimiz Meth Lab</td>
<td>Required laboratory for IHE 6711.</td>
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<td>GR, LB, Lab</td>
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<tr>
<td>CEG2400</td>
<td>2400</td>
<td>Intro to PC Networking</td>
<td>Introduces networking technologies including infrastructure and architectures, standards, protocols and directory services, administration, security and management. Integrated lecture and lab. Department Managed Prerequisite(s): Undergraduate level CS 1150 Minimum Grade of D or Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D.</td>
<td>3</td>
<td></td>
<td>UG, LL, Lecture/Lab Combination</td>
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<tr>
<td>HST7110</td>
<td>7110</td>
<td>Seminar US since 1865</td>
<td>Examines United States history since the Civil War. Topics vary and may include Reconstruction, the Progressive Era, and the rise of the United States as a world power.</td>
<td>3</td>
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<td>GR, SE, Seminar</td>
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<tr>
<td>SOC6310</td>
<td>6310</td>
<td>Urban Sociology</td>
<td>Role of cities in past and present societies, the social and cultural implications of urban living, and problems associated with city life.</td>
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<td>GR, LE, Lecture</td>
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<tr>
<td>EDS6670</td>
<td>6670</td>
<td>Collab for Inclusion</td>
<td>Co-teaching techniques with an emphasis on differentiation, as well as collaborative consultation and communication strategies to enhance instruction for diverse learners.</td>
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<td>GR, LE, Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credit</td>
<td>Title</td>
<td>Department</td>
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<tr>
<td>STT3860</td>
<td>3860</td>
<td>Ind Read Stat and Prob</td>
<td>STT</td>
<td>UG</td>
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<tr>
<td>RHB3020</td>
<td>3020</td>
<td>Pharmacology for Rehab</td>
<td>RHB</td>
<td>IS</td>
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<tr>
<td>CNL7240</td>
<td>7240</td>
<td>Career Counseling &amp; Dev</td>
<td>CNL</td>
<td>LE</td>
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<tr>
<td>ISE4711L</td>
<td>4711L</td>
<td>Optimization Methods Lab</td>
<td>ISE</td>
<td>LB</td>
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<tr>
<td>BIO4540</td>
<td>4540</td>
<td>Pathophysiology</td>
<td>BIO</td>
<td>LE</td>
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<tr>
<td>PLS4880</td>
<td>4880</td>
<td>Conflict Resolution</td>
<td>PLS</td>
<td>SE</td>
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<tr>
<td>ASM7573</td>
<td>7573</td>
<td>Aerospace Skills III</td>
<td>ASM</td>
<td>SE</td>
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<tr>
<td>EDL7730</td>
<td>7730</td>
<td>Curriculum Analysis</td>
<td>EDL</td>
<td>LE</td>
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<tr>
<td>ED4950</td>
<td>4950</td>
<td>Youth Voices</td>
<td>ED</td>
<td>SE</td>
<td></td>
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<tr>
<td>EES7100</td>
<td>7100</td>
<td>Complex in Env. Systems</td>
<td>EES</td>
<td>LL</td>
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<tr>
<td>CEG6510</td>
<td>6510</td>
<td>3D Modeling/Anim</td>
<td>CEG</td>
<td>LE</td>
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<tr>
<td>ME7390</td>
<td>7390</td>
<td>Fund of Plasma Sci</td>
<td>ME</td>
<td>LE</td>
<td></td>
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<tr>
<td>ISG7500</td>
<td>7500</td>
<td>Spec Studies in Ghd Ed</td>
<td>ISG</td>
<td>IN</td>
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<tr>
<td>CHM5120L</td>
<td>5120L</td>
<td>Quant Analysis Lab</td>
<td>CHM</td>
<td>LB</td>
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<tr>
<td>EE7160</td>
<td>7160</td>
<td>Multisensor Info Fusion</td>
<td>EE</td>
<td>LE</td>
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<tr>
<td>ATH3710</td>
<td>3710</td>
<td>Ethnographic Fieldwork</td>
<td>ATH</td>
<td>LE</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Type</td>
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<tr>
<td>SOC5110</td>
<td>5110</td>
<td>Sociology of Religion</td>
<td>SOC</td>
<td>Prerequisite: Sociology 3 or permission of the instructor.</td>
<td>Lecture</td>
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<tr>
<td>BIO4720L</td>
<td>4720L</td>
<td>Ornithology Lab</td>
<td>BIO</td>
<td>Required laboratory for BIO 4720.</td>
<td>Lab</td>
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<tr>
<td>PHY1110</td>
<td>1110</td>
<td>Principles of Physics I</td>
<td>PHY</td>
<td>Fundamental physics of mechanics. Topics include laws of motion, work and energy, momentum, circular and rotational motion, gravity, fluids, mechanical waves and thermodynamics.</td>
<td>Lecture</td>
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<tr>
<td>KNH1420B</td>
<td>1420B</td>
<td>Orienteering/Land Navigation</td>
<td>KNH</td>
<td>Course may accommodate disabled students when appropriate.</td>
<td>Lab</td>
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<tr>
<td>DS7960</td>
<td>7960</td>
<td>MSDS Capstone Project</td>
<td>DS</td>
<td>In DS 7960 students will apply the concepts from their formal graduate coursework to current, practical problems relevant to the field. Unlike a Master’s thesis, the capstone project does not necessarily require an original, unique contribution to the state of the art. However, the project should require demonstration of graduate level mastery over a substantial body of concepts in the field. Projects may include (but are not limited to) implementation and/or robust testing of software or hardware artifacts relevant to the field, replication of previous research results or conduct of novel research, collection, curation and analysis of real-world or simulation data of value to the research community, or authoring a comprehensive review of the state of the art in a specific research area.</td>
<td>IS</td>
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<tr>
<td>SPN3110</td>
<td>3110</td>
<td>Spanish Conversation I</td>
<td>SPN</td>
<td>Practice in oral use of Spanish emphasizing the culture of the Hispanic world. Department Managed Prerequisite(s): Undergraduate level SPN 2020 Minimum Grade of D or AP Spanish Language 4 or AP Spanish Literature 4.</td>
<td>Lecture</td>
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<tr>
<td>KNH1290B</td>
<td>1290B</td>
<td>H2O Zumba</td>
<td>KNH</td>
<td>Fundamental skills and knowledge of H2O Zumba. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>Lab</td>
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<tr>
<td>EDT8490</td>
<td>8490</td>
<td>Online Courses Interactive</td>
<td>EDT</td>
<td>Examines the theory and practices of using educational technologies to ensure online courses include ample interaction. Class will include the knowledge and skills necessary to utilize some of these educational technologies.</td>
<td>Lecture</td>
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<tr>
<td>ART4020</td>
<td>4020</td>
<td>Museum/Gallery Intern</td>
<td>ART</td>
<td>Supervised individual projects in museum or gallery setting.</td>
<td>Internship</td>
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<tr>
<td>MLB4611</td>
<td>4611</td>
<td>Serology Lab</td>
<td>MLB</td>
<td>Antigens and the stimulation of antibodies in vivo, and the use of these reactions to perform in vitro testing to diagnose and monitor the course of disease. This course has a fee that is non-refundable once the term begins.</td>
<td>Lab</td>
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<tr>
<td>PSY4110</td>
<td>4110</td>
<td>Positive Psy Cap</td>
<td>PSY</td>
<td>Communication-intensive seminar integrating knowledge within Positive Psychology. Integrated Writing course.</td>
<td>Seminar</td>
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<tr>
<td>ED6630</td>
<td>6630</td>
<td>AYA: Soc Studies: C&amp;M I</td>
<td>ED</td>
<td>Course focuses on principles, resources, technology, critical thinking skills, historiography, and social science research for adolescence social studies. This course will also focus on teaching in the multicultural classroom.</td>
<td>Lecture</td>
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<tr>
<td>ED2270</td>
<td>2270</td>
<td>MCE AYA Sci PCK Seminar</td>
<td>ED</td>
<td>Teacher candidates will form a foundation for science pedagogical content knowledge. Readings, discussions, observations, and reflections on how students learn science and how best to teach it.</td>
<td>Seminar</td>
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<tr>
<td>HST7320</td>
<td>7320</td>
<td>Seminar African History</td>
<td>HST</td>
<td>Examines particular periods, regions, or countries in African history. Topics vary.</td>
<td>Seminar</td>
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<tr>
<td>BIO4920</td>
<td>4920</td>
<td>Senior Seminar</td>
<td>BIO</td>
<td>Literature survey, discussion, and oral presentations of selected topics in the biological sciences. Minimum GPA of 2.25.</td>
<td>Seminar</td>
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<tr>
<td>PLS6380</td>
<td>6380</td>
<td>Environ Law &amp; Policy</td>
<td>PLS</td>
<td>Examines environmental law and policy and reviews the statutory framework pertaining to environmental impact statements, the regulation of air and water pollution, the disposal and cleanup of toxic wastes, and workplace safety.</td>
<td>Lecture</td>
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<tr>
<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Enrollment</td>
<td>Delivery</td>
<td>Notes</td>
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<tr>
<td>Spring 2021</td>
<td>ED4990</td>
<td>Afr Am Exper in Ed: Cap</td>
<td>4990</td>
<td>This course offers an introduction to the field of probabilistic machine learning. Examples are drawn from sensor signal exploitation, biology, text processing, computer vision, and robotics. Key techniques are demonstrated and implemented in MATLAB. Department Managed Prerequisite(s): Undergraduate level EE 3260 Minimum Grade of D or Undergraduate level ISE 2211 Minimum Grade of D or Undergraduate level STT 3630 Minimum Grade of D.ENA112 Lecture</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ENG7010</td>
<td>Meth &amp; Mat: Literature</td>
<td>7010</td>
<td>Examination of the aims and approaches of scholarly study of literature and the tools and methods of literary research. Emphasis on the problems of collecting, evaluating, and reporting the findings of scholarly study.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>DEV0600</td>
<td>Found for Stat Concepts</td>
<td>6060</td>
<td>Review of basic arithmetic and algebra concepts and skills including numbers and the number line, operations on numbers, sets, equations and inequalities, graphing points and lines in two dimensions, and reading tables and graphs and approximating areas. The context and examples will be from statistics. The content will be delivered to provide “just in time” remediation for STT 1600.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CHM1220L</td>
<td>General Chemistry Lab II</td>
<td>1220L</td>
<td>Examination of the principles of General Chemistry II through experimentation.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>DEV0600</td>
<td>Developmental Education</td>
<td>6060</td>
<td>Study of specialized topics in the areas of criminal justice or social problems. Topics vary.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>CLS2600</td>
<td>Classical Mythology</td>
<td>2600</td>
<td>A survey of the myths and legends of ancient Greece and Rome which are an important part of the Western literary and cultural tradition. Integrated Writing course. Credit will not be given for CLS 2600 Classical Mythology for students who have already successfully completed CLS 1600.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BIO6550L</td>
<td>Plant Systematics Lab</td>
<td>6550L</td>
<td>Required laboratory for BIO 6550.</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>Spring 2021</td>
<td>ACC3430</td>
<td>Federal Income Tax I</td>
<td>3430</td>
<td>Federal income taxation of individuals. Analysis of the determinants of taxable income and the tax liability, including property transfers, recapture, passive activities and income characterization.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>URS3460</td>
<td>Public Personnel Admin</td>
<td>3460</td>
<td>Methods of employment, training, compensation, and employee relations in various levels of civil service. Examines organizations of public employees.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ED3650</td>
<td>Music Ed Methods Field Exp</td>
<td>3650</td>
<td>Candidates, mentored by a music educator, assist in the planning, organizing, delivering, and assessing of instruction in a music classroom (any PK-12) setting applying pedagogical content knowledge from music education methods courses.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
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<tr>
<td>Spring 2021</td>
<td>ED7903</td>
<td>Instruct Practices in Literacy</td>
<td>7903</td>
<td>Centers on the effective implementation of various literacy instructional practices, the evidence behind the practices and their practical application in PK-12 classrooms.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>Spring 2021</td>
<td>STT7920</td>
<td>Biostat Consulting</td>
<td>7920</td>
<td>Consultation with clients on biostatistical problems, under the direct supervision of a professional statistical consultant. Department Managed Prerequisite(s): Graduate level STT 6620 Minimum Grade of D and Graduate level STT 6670 Minimum Grade of D.ENA112 Practicum</td>
<td>GR</td>
<td>PR</td>
<td>Practicum</td>
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<tr>
<td>Spring 2021</td>
<td>EDS4650</td>
<td>Transitions Exceptions</td>
<td>4650</td>
<td>Role of intervention specialists in shaping transition for students with exceptionalities. Focus on high school/adult transition with consideration of transitions at earlier levels.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9450</td>
<td>Feminist Psychotherapy</td>
<td>9450</td>
<td>Addresses the theory underlying feminist therapy and focuses on applying that theory to clinical work by utilizing readings, videos, discussion, and role-plays. Students will practice conceptualizing from the feminist perspective.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ASL3020</td>
<td>Deaf History in America</td>
<td>3020</td>
<td>The multi-faceted history of the American Deaf community, exploring the deaf experience through time.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>SOC6090</td>
<td>Studies in Selected Sbj.</td>
<td>6090</td>
<td>Problems, approaches, and topics in the field of sociology. Topics vary.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MUS1560</td>
<td>Keyboard Musicianship II</td>
<td>1560</td>
<td>Class instruction in functional keyboard skills including technique, chord construction and connection, improvisation, harmonization, playing by ear, sight reading, score reading, ensemble playing, and performing repertoire pieces.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>ED6575</td>
<td>6575</td>
<td>MA Intern Pt.II: ST CIS</td>
<td>Education 8 Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades K-12: Computer Information Science classroom.</td>
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<tr>
<td>S14540</td>
<td>4540</td>
<td>Mental Health</td>
<td>An introduction to mental health interpreting will prepare Interpreters to work with Deaf clients, providing appropriate and culturally affirming services, promote teamwork and understanding of mental health service providers and improve individual interpreting skills.</td>
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<td>K111560A</td>
<td>1560A</td>
<td>Socc: Indoor</td>
<td>Fundamental skills and knowledge of Socc: Indoor. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>EE5210</td>
<td>5210</td>
<td>Linear Systems I</td>
<td>Continuous-time signals and systems, time domain analysis, Laplace transform, Fourier series, Fourier transform, Bode analysis. Various approaches to system and signal modeling are also discussed.</td>
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<tr>
<td>EES6560</td>
<td>6560</td>
<td>Groundwater Contam</td>
<td>Common anthropogenic contaminant distribution in the groundwater as investigated in recent decades. Emphasizes contaminant degradation mechanisms in detail by physical, chemical and microbial processes, which directly affects the mobility and fate of the contaminants in soil and water.</td>
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<tr>
<td>MIS4700</td>
<td>4700</td>
<td>Data Science for Bus App</td>
<td>Introduction to the process of extracting information and answers from multi-dimensional datasets to generate business insights. It will provide a broad overview of the entire data analytics pipeline, from data collection and preprocessing, to storing, exploring, visualizing, modeling, and interpretation. Modern computing tools (e.g. R, SAS) and essential data mining, machine learning, text, and network analytic methods will be discussed. Must be enrolled in CoBA.</td>
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<tr>
<td>LE1120</td>
<td>1120</td>
<td>Police Academy 3</td>
<td>Ohio Police Training Academy curriculum. Human relations and safety issues. Study of law on search and seizure, interview and interrogation, civil liability and use of force, and testifying. Requires admission to Grand Lake Law Enforcement Academy.</td>
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<tr>
<td>EGR3980L</td>
<td>3980L</td>
<td>Special Topics in EGR Lab</td>
<td>Required laboratory for EGR 2980.</td>
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<tr>
<td>PPH7320</td>
<td>7320</td>
<td>Public Health Law</td>
<td>This course provides a general introduction to the field of public health law. The objective of the course is to provide non-lawyers with a general overview of contemporary public health laws, regulations, and court decisions, and the key issues raised thereby with regard to the protection of individual civil and economic liberties. Objectives will be accomplished via lectures, assigned readings, and team-based learning activities. Periodic writing assignments and a final exam are required.</td>
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<tr>
<td>EC7190</td>
<td>7190</td>
<td>International Economics</td>
<td>This course covers trade theories, commercial policy, and theories of international investment and migration, theories of exchange rate determination and open macroeconomics. Special attention is paid to international economic institutions and current financial crises. Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or (Undergraduate level EC 2400 Minimum Grade of D and Undergraduate level EC 2050 Minimum Grade of D) Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or (Undergraduate level EC 2400 Minimum Grade of D and Undergraduate level EC 2050 Minimum Grade of D).</td>
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<tr>
<td>EES3200</td>
<td>3200</td>
<td>Water, Energy, &amp; Environment</td>
<td>Exploration of the geologic and environmental context of water and energy and the important link between these crucial resources. Emphasis is placed on the increasing global demand for water and energy and how the development and use of energy resources are associated with the allocation, use, and contamination of water. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level EES 1050 Minimum Grade of D or Undergraduate level EES 2510 Minimum Grade of D or Undergraduate level EES 2550 Minimum Grade of D.</td>
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<tr>
<td>LAT5510</td>
<td>5510</td>
<td>Readings in Roman Drama</td>
<td>Drama in Latin by Seneca, Plautus, and/or Terence. Discussion of dramatic techniques, Greek influence, and the role of drama in Roman society. Titles vary.</td>
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<tr>
<td>LA6100</td>
<td>6100</td>
<td>Theory</td>
<td>An examination of the relationship and relevance of academia, the humanities, and the liberal arts to today's society and the modern learner.</td>
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<tr>
<td>EDS7230</td>
<td>7230</td>
<td>Stu Teach: Int Spec Mild/Mod</td>
<td>Candidates, under the direct supervision of an experienced intervention specialist, are assigned to a school for intensive teaching experience in grades K-12 special education for students with mild/moderate needs.</td>
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<tr>
<td>Spring 2021</td>
<td>EDT7800</td>
<td>7800</td>
<td>ICT in Education</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td>Information and communication technology provides effective technology integration strategies to educators in the K-12 arena. Participants will be introduced to key technology skills and explore current and emerging practices in educational technologies.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9971</td>
<td>9971</td>
<td>Practicum I</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>1</td>
<td>Field experience supervised by a licensed psychologist.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>COM4110</td>
<td>4110</td>
<td>Perform for the Media</td>
<td>COM</td>
<td>Communication</td>
<td>3</td>
<td>Development of skills necessary for effective television and radio presentations. Study of criteria for selecting appropriate talent and frequent practice in a wide range of media settings. Integrated Writing course.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>PHY3460</td>
<td>3460</td>
<td>Concepts Appl Physics II</td>
<td>PHY</td>
<td>Physics</td>
<td>4</td>
<td>Basic concepts and applications in physics including electricity, magnetism, optics, waves, simple machines. Inquiry learning environment emphasizing science process and mathematical reasoning, problem-solving, technology and societal connections.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES4330</td>
<td>4330</td>
<td>Prep for Active Duty II</td>
<td>AES</td>
<td>Aerospace Studies</td>
<td>3</td>
<td>Overview of the complex social and political issues facing the military profession.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3450</td>
<td>3450</td>
<td>Concepts Bio I</td>
<td>BIO</td>
<td>Biology</td>
<td>4</td>
<td>Introduction to biological concepts for Elementary and Middle School Education Majors. Structured around the National and Ohio State Science Standards and taught from an inquiry perspective. Examines approaches that attempt to teach science as a knowledge-building practice, i.e., by engaging in scientific investigations and participating in scientific practices such as designing an investigation, explanation, and working with scientific models.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT7230</td>
<td>7230</td>
<td>SLM Resources for YA</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td>Developing school library collections for your adults. Introduction to young adult literature including major authors and illustrators. Selecting materials in different formats such as multimedia, e-books, and reference databases.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LAT5570</td>
<td>5570</td>
<td>Readings in Roman Satire</td>
<td>LAT</td>
<td>Latin</td>
<td>3</td>
<td>Horace, Juvenal, Persius, Petronius, and Martial. Topics include development of this peculiar Roman genre, fragments of Lucilinus, satirical methods and techniques, satiric epigram, and satire as a source of information about Roman private life. Titles vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7120</td>
<td>7120</td>
<td>Seminar in Af-Am History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Focuses on African diaspora in the Americas. Topics include the black experience in the United States and Latin America from the colonial period to the present. Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3340</td>
<td>3340</td>
<td>Music in the Elementary</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>Materials, techniques, organization, and administration of vocal and general music programs in the public school. Reading components and teaching strategies included.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS9970</td>
<td>9970</td>
<td>Laboratory Rotation II</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>1</td>
<td>Independent study designed to develop proficiency in technology, instrumentation, research design, and data analysis in an area of concentration (advanced curriculum) different from a student's area of specialization.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT8120</td>
<td>8120</td>
<td>Inst Design Digital Lrng</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td>Participants will learn the basic concepts and elements of an instructional design model. The course teaches the backward design approach and alignment to ensure that courses design focus on the big ideas.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1220</td>
<td>1220</td>
<td>Fencing: Competitive</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Fencing: Competitive. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5720</td>
<td>5720</td>
<td>Pentateuch</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Examines patriarchal narratives and Mosaic legislation in the Pentateuch or Torah as the bedrock of the Bible.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN4120</td>
<td>4120</td>
<td>Fixed Income Securities</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Introduction to the valuation of fixed income securities and the management of fixed income investment portfolios.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISM3000</td>
<td>3000</td>
<td>Independent Research</td>
<td>ISM</td>
<td>Interdis. Appl. Sci. and Math</td>
<td>1</td>
<td>The research work to be performed will be supervised by an ISM Program Faculty member. The scope and milestones required for the independent research shall be decided upon by the faculty member in consultation with the student.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6420</td>
<td>6420</td>
<td>Host Computer Security</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3</td>
<td>This course introduces security hardening of a single system, and how to protect it when connected to a network. It explains how malware can compromise security and privacy from the moment a machine is powered on until shut down. Topics include Privilege Escalation, Buffer Overruns, Network Packet Mangling, Session Hijacking, Firewalls, and ethics. Lab work uses tools such as nmap and BackTrack Linux.&lt;b&gt; Department Managed Prerequisite(s): Graduate level CEG 6350 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LAW4300</td>
<td>4300</td>
<td>Legal Aspects Workplace</td>
<td>LAW</td>
<td>Law</td>
<td>3</td>
<td>Introduction to selected federal and Ohio workplace laws and policies with legal implications for human resource professionals and/or managers and for interacting with legal counsel.</td>
<td>UG</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Type</td>
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<tr>
<td>ED6840</td>
<td>Meas &amp; Assessment in ED</td>
<td>ED</td>
<td>3</td>
<td>The design and integration of traditional and alternative assessment in the classroom.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>REL5740</td>
<td>Prophets and History</td>
<td>REL</td>
<td>3</td>
<td>Examines historical context of Biblical prophets and prophecies in terms of historical, religious, national, and moral implications.</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>ENG2120</td>
<td>Research and Argument</td>
<td>ENG</td>
<td>3</td>
<td>Adapts principles introduced in ENG 1100 and equivalents to writing for professional audiences in the health sciences and lay readers. Stresses argument, research, and effective use of source materials. Students may use any of the following courses to satisfy the requirements of the Core, but only one may count: ENG 2100, ENG 2110, ENG 2120, ENG 2130, or 2140.</td>
<td>Lecture</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ISE3211R</td>
<td>Human Biomechanics I Rec</td>
<td>ISE</td>
<td>0</td>
<td>Required recitation for ISE 3211.</td>
<td>Recitation</td>
<td></td>
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</tr>
<tr>
<td>ITA2020</td>
<td>Intermediate Italian II</td>
<td>ITA</td>
<td>3</td>
<td>Continued study of the Italian language. Grammar review, reading, and discussion of selected texts, with practice in speaking and writing the language. Department Managed Prerequisite(s): Undergraduate level ITA 2010 Minimum Grade of D.</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>KNH1450B</td>
<td>Rape Def Strat Basic</td>
<td>KNH</td>
<td>1</td>
<td>Fundamental skills and knowledge of Rape Defense Strategies: Basic. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>Lab</td>
<td></td>
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<tr>
<td>REL6100</td>
<td>Seminar on Judaism</td>
<td>REL</td>
<td>3</td>
<td>Examines problems, approaches, and topics in the field of Judaism. Topics vary.</td>
<td>Seminar</td>
<td></td>
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<tr>
<td>SAA7530</td>
<td>Stress Management &amp; Resilience</td>
<td>SAA</td>
<td>3</td>
<td>Learn resilience skill development strategies and stress management techniques that are used in personal and professional development. Develop key resilience and stress management competencies that are useful in working with students and adults.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>TEG2910</td>
<td>Main Fund/indust Mech</td>
<td>TEG</td>
<td>8</td>
<td>Standard maintenance tasks including the application of standards of metrology and basic material structures and concepts of mechanical advantage and how it applies to industrial machinery.</td>
<td>Lecture/Lab Combination</td>
<td></td>
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</tr>
<tr>
<td>BIO6800</td>
<td>Conservation Biology</td>
<td>BIO</td>
<td>3</td>
<td>The goal of this class is to provide you an entry into the field of conservation biology. Since conservation biology is an interdisciplinary field, we will touch upon topics from many disciplines, such as biology-related ecology, genetics, statistics, botany, zoology, biogeography, but also social studies, economics, and political science. As an applied science, conservation biology necessarily works in the fault lines between pure science that attempts to be value-free and objective, and management that attempts to balance the needs and ideologies of all stakeholders and may even employ advocacy that attempts to influence the public and decision makers using the best knowledge and techniques available. Given the two challenging aspects of this class, namely its interdisciplinary and applied nature, the format will also be unusual, blending traditional lecture-style instruction with class discussion, activities and projects. Examination of the scientific theory and applied research focused on the sustained preservation of global biological diversity.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>FR5510</td>
<td>French Civilization</td>
<td>FR</td>
<td>3</td>
<td>Study of the main currents of French civilization with emphasis on historical aspects. Conducted in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of C or Graduate level FR 5210 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>PLS2220</td>
<td>International Politics</td>
<td>PLS</td>
<td>3</td>
<td>Introductory survey of the international political system including study of state and nonstate actors, major features of the system, conflict roots, approaches to peace-keeping, and current issues.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>CNL7261</td>
<td>Systems Theory</td>
<td>CNL</td>
<td>2</td>
<td>Considers principles and techniques of marriage and family counseling from a variety of theoretical orientations.</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>BMS9910</td>
<td>Special Topics</td>
<td>BMS</td>
<td>1</td>
<td>Selected topics in biomedical sciences.</td>
<td>Combination</td>
<td></td>
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<tr>
<td>EDL7675</td>
<td>Tchr Ldr Capstone Exit</td>
<td>EDL</td>
<td>3</td>
<td>Focus on understanding current teacher leadership within the context of the school organization.</td>
<td>Seminar</td>
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<td>Term</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Level</td>
<td>Type</td>
<td>Credits</td>
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<tr>
<td>Spring 21</td>
<td>BME4720</td>
<td>4720</td>
<td>Biomedical Optics</td>
<td>Biomedical Engineering 3 Quantitative biomedical optics, principles and applications of light propagation in biological tissues; optical imaging contrasts, light transport models including photon diffusion in living tissue; optical devices for light-based diagnostics for cancer detection, brain function monitoring; light-based therapies as alternative treatment for cancer and brain diseases. Application of concepts in lab experiments. Presentation of translational research of optical methods and clinical applications.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ME6240</td>
<td>6240</td>
<td>Vehicle Engineering</td>
<td>Mechanical and Materials Engr 3 Develops students' abilities to derive and solve vehicle equations, and introduce dynamic analysis in vehicle design. Various performance criteria, control concepts, and HEVs will be studied.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level ME 2210 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>BIO3990</td>
<td>3990</td>
<td>Undergrad Teaching Asst</td>
<td>BIO Biology 1 Supervised experience in preparing materials and apparatus for laboratory sessions in the biological sciences. Students will work with course staff on a regularly scheduled basis to develop the practices and skills associated with laboratory teaching responsibility and assist course staff in teaching the laboratory. Graded pass/unsatisfactory.</td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>WGS3800</td>
<td>3800</td>
<td>Selected Subjects</td>
<td>WGS Women, Gender, and Sexuality 3 Issues, approaches, and topics in women's studies. Topics vary.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level WMS 2000 Minimum Grade of C or Undergraduate level WGS 2000 Minimum Grade of C&lt;/b&gt;</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MTH4070</td>
<td>4070</td>
<td>Optimization Techniques</td>
<td>MTH Mathematics 3 Algorithms for optimizing real functions of several variables subject to equality and inequality constraints. Convexity properties of functions and sets, linear programming, simplex and interior point methods, integer programming, branch and bound algorithm, transportation problem, necessary and sufficient conditions for nonlinear function optimization, Newton and quasi-Newton methods, Lagrange multiplier conditions, Kuhn-Tucker conditions, dynamic programming.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>CHM7200</td>
<td>7200</td>
<td>Adv Inorganic Chem I</td>
<td>CHM Chemistry 2 Study of the modern theories of valence, structural inorganic chemistry, and the chemistry of nonmetals.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 21</td>
<td>EDL8710</td>
<td>8710</td>
<td>Management of the School</td>
<td>EDL Educational Leadership 3 Focuses on the day-to-day operation of a school building and a school system. State requirements are emphasized in relation to operational procedures in all aspects of managing a school and a school system.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>HST7230</td>
<td>7230</td>
<td>Sem Modern Eur Hist</td>
<td>HST History 3 Examines aspects of European history from the Enlightenment to the present. Topics vary. &lt;b&gt; Department Managed Prerequisite(s): Undergraduate level HST 2000 Minimum Grade of C&lt;/b&gt;</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>REL5940</td>
<td>5940</td>
<td>Existentialism</td>
<td>REL Religion 3 (Also listed as PHL 5090.) Introduction to 20th century philosophical and literary movement. Emphasis on concrete existence and the passions over abstract rationality, conception of self as a product of radically free acts of self-creation, affirmation of uncertainty and absurdity as inescapable elements of the human condition, and rejection of traditional ethical systems.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MKT4100</td>
<td>4100</td>
<td>Digital Marketing</td>
<td>MKT Marketing 3 Basic principles of internet marketing and use of selected technologies e.g., advertising, search engine optimization, viral/social marketing, online surveys, web design, analytics, SPSS, geodemographics.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>PHL5130</td>
<td>5130</td>
<td>Metaphysics</td>
<td>PHL Philosophy 3 An examination of topics such as: the problem of universals, free will and determinism, the nature of abstract entities like numbers, the problem of identity and individuation, the nature of time and cause and effect and the realism and anti-realism debate.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>Spring 21</td>
<td>SPN3500</td>
<td>3500</td>
<td>Spanish Ambassador Prog</td>
<td>SPN Spanish 3 Professor-led study abroad program in a Spanish-speaking country, such as Mexico, Puerto Rico, Spain, etc. Taught in Spanish.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level SPN 2020 Minimum Grade of D&lt;/b&gt;</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>FR5220</td>
<td>5220</td>
<td>Adv Writing in French</td>
<td>FR French 3 Writing techniques and grammar review; literary and film analysis incorporating grammar points. Taught in French.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>NUR4460C</td>
<td>4460C</td>
<td>Lshp Mgmt to Prof/Nrng Clin</td>
<td>NUR Nursing 0 Required clinical for NUR 4460.</td>
<td>UG</td>
<td>CL</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>EES1070L</td>
<td>1070L</td>
<td>Sustainable Earth Lab</td>
<td>EES Earth &amp; Environmental Sciences 0 Required laboratory for EES 1070.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>SPN6320</td>
<td>6320</td>
<td>Sem in Spanish- Amer Lit</td>
<td>SPN Spanish 3 Readings and reports in the novel, poetry, and drama of selected Spanish-American authors. Representative works of Borges, Garcia Marquez, Rulfo, Paz, Vargas Llosa, Sanchez, and others.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7470</td>
<td>7470</td>
<td>EM Simulation Methods</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Direct solution of Maxwell's differential equations in the time domain using the finite-difference time-domain (FDTD) method. Absorbing boundary conditions and waveguide or plane wave excitation methods. Application to the solution of problems relevant to radiation, radar cross section (or scattering) and microwave circuit design. Wave equation and integral implementation. Application of one- and two-dimensional EM problems. Comparison with the finite element method.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED1040</td>
<td>1040</td>
<td>Foundations in Learning</td>
<td>ED</td>
<td>Education</td>
<td>2</td>
<td>Introduces first semester students to skills needed for successful transition to college, including self-determination and self-advocacy, goal-setting, strategic learning, metacognition, and laws protecting student with disabilities. Use of technology and campus resources to achieve academic success will be explored.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE6711</td>
<td>6711</td>
<td>Optimiz Meth</td>
<td>IIE</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>4</td>
<td>Introductory course on deterministic models in operation research and their applications in Industrial and Human Systems Engineering. Students will formulate appropriate models, and obtain and interpret results in the context of IHE problems.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SCM4600</td>
<td>4600</td>
<td>Supply Management</td>
<td>SCM</td>
<td>Supply Chain Management</td>
<td>3</td>
<td>This course covers the nature of sourcing in modern organizations, how sourcing executes business strategy, legal aspects of sourcing including agency role and types of contracts, and negotiation principles. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4050</td>
<td>4050</td>
<td>Honors Seminar</td>
<td>PSY</td>
<td>Psychology</td>
<td>2</td>
<td>Primarily derived from current honors thesis research. Literature surveys, experimental designs, and special analytical problems presented and discussed by students and faculty. Topics vary.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3930</td>
<td>3930</td>
<td>Faith and Reason</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Introduction to issues in philosophy of religion. Topics vary.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES7490</td>
<td>7490</td>
<td>Modeling Sub Fluid Flow</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Applications of models for simulating subsurface flow and mass transport in aquifers and oil/gas reservoirs. The emphasis will be on developing the dimensionality, the spatial and temporal discretization, the initial and boundary conditions, and the parameterization needed in formulating a model from field data.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT3600</td>
<td>3600</td>
<td>Applied Statistics I</td>
<td>STT</td>
<td>Statistics</td>
<td>3</td>
<td>Introduction to probability, random variables and their expectations, some commonly used discrete and continuous distributions, concept of random sampling and sampling distributions. Use of computer software packages for simulating, summarizing, and displaying data.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY6430</td>
<td>6430</td>
<td>Complex Nat. Systems</td>
<td>PHY</td>
<td>Physics</td>
<td>4</td>
<td>Explores quantitative analysis and probabilistic forecasting of the behavior of complex nonlinear natural and human systems. Methods of analysis included fractals to quantify spatial, size, and temporal scaling and chaos to study sensitivity to initial conditions and feedback. Modeling includes self-organization and cellular automata. Systems studied include seismology, chemistry, biochemistry, hydrology, medicine, geography, and coupled human and natural systems.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISG7220</td>
<td>7220</td>
<td>Nat &amp; Nur St Ghd Ed Nd</td>
<td>ISG</td>
<td>Intervention Specialist Gifted</td>
<td>3</td>
<td>Addressing cognitive, affective, social, and physical characteristics of students with gifted and talented needs in the educational setting.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6660</td>
<td>6660</td>
<td>AYA: Int Science: C&amp;M</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
<td>Methods, curriculum, and materials for teaching adolescent school science: emphasis on philosophy, planning and implementation, evaluation, resources and facilities, and historical and contemporary curricular trends in science education.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX8013</td>
<td>8013</td>
<td>Communication in Science</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>A crash course in bringing clarity, plain language and fun to scientific communications.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN2220</td>
<td>2220</td>
<td>Inter Spm II for Medical</td>
<td>SPN</td>
<td>Spanish</td>
<td>3</td>
<td>Intermediate level Spanish course with service component. Grammar, vocabulary, oral and written communication skills, cultural sensitivity training in the context of the medical profession.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOM705</td>
<td>705</td>
<td>Year 1 Medical Study</td>
<td>SOM</td>
<td>School of Medicine</td>
<td>24</td>
<td>Methods, curriculum, and materials for teaching adolescent school science: emphasis on philosophy, planning and implementation, evaluation, resources and facilities, and historical and contemporary curricular trends in science education.</td>
<td>MD</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4920</td>
<td>4920</td>
<td>Clinical Neuro Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on clinical neuroscience. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CLS3700</td>
<td>3700</td>
<td>Ancient Pol/Law/War</td>
<td>CLS</td>
<td>Classics</td>
<td>3</td>
<td>Politics, law and legal systems, and warfare in Greece and Rome. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISG7280</td>
<td>7280</td>
<td>Com &amp; Con GIS as St Adv</td>
<td>ISG</td>
<td>Intervention Specialist Gifted</td>
<td>3</td>
<td>Skills and information needed in the role of the Gifted Intervention Specialist as collaborator with general education teacher, administrators and parents and the advocate for students with gifts and talents.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>URS3210</td>
<td>3210</td>
<td>City Politics</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Overview of urban and metropolitan politics and problems. Examination of how cities and metropolitan areas are governed: the changing structure of local government, the powers afforded localities, opportunities for citizen participation, and possibilities for regional cooperation. Study of key urban service areas: schools, land use and zoning, policing, economic development, urban planning, etc.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I8000</td>
<td>8000</td>
<td>Microbiology Seminar</td>
<td>M&amp;I</td>
<td>Microbiology &amp; Immunology</td>
<td>1</td>
<td>Graded pass/unsatisfactory.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1770</td>
<td>1770</td>
<td>Water Safety Instruction</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>National American Red Cross standards training for teaching American Red Cross Swimming and Diving and Water Safety courses.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH7810</td>
<td>7810</td>
<td>Foundations of Clinical Ethics</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>This course will provide an introduction to moral philosophy in medicine, emphasizing its historical underpinnings. Specifically, the course will focus on normative ethics as applied to the pluralistic arena of modern healthcare.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6300</td>
<td>6300</td>
<td>African History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines particular periods, regions, or countries in African history.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH1450</td>
<td>1450</td>
<td>Acting I</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Exploration of acting through the lens of characters in more demanding scenes from established scripts, using script analysis as the foundation for acting choices.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE4410</td>
<td>4410</td>
<td>Tech Based Ventures</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>3</td>
<td>Train students on methods to develop breakthrough products with an entrepreneurial perspective and managerial outlook. Topics include advanced product development, protecting intellectual property, fostering strategic and creative thinking, effectively leading technology-driven teams.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB7270</td>
<td>7270</td>
<td>Proteins and Enzymes</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>3</td>
<td>Also listed as BMS 7670. Current concepts in protein structure and function and the mechanism of enzymatic catalysis.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ACC7390</td>
<td>7390</td>
<td>Advanced Accounting</td>
<td>ACC</td>
<td>Accountancy</td>
<td>3</td>
<td>To study the accounting principles and techniques used to consolidate parent and subsidiary companies at the date of combination and in subsequent periods.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6340</td>
<td>6340</td>
<td>Simulation of Thermal-Fluid Systems</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>In this course students will learn to use commercial computational fluid dynamics software to solve practical engineering problems, including fluid, heat and mass transfer. Department Managed Prerequisite(s): Graduate level ME 6010 Minimum Grade of D-</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR3200</td>
<td>3200</td>
<td>Health Wellness Family</td>
<td>NUR</td>
<td>Nursing</td>
<td>3</td>
<td>Foundation course in culture and family nursing. Emphasizes concepts, models, theories and strategies consistent with a philosophy of health and wellness in the context of human diversity for individuals and families. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE5320</td>
<td>5320</td>
<td>Digital System Design</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>4</td>
<td>Basics of Digital Computer Hardware and Design. Topics include switching algebra and switching functions, logic design of combinational and sequential circuits, storage elements, register-level design, and instrumentation.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6210</td>
<td>6210</td>
<td>Info Processing Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on information processing skills such as selective attention, pattern recognition, reading, problem solving, and human performance.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4930</td>
<td>4930</td>
<td>Research in ME</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>1</td>
<td>Second of a two-course sequence affording students an experience in the methodology of solving realistic engineering design problems. Both courses require research of professional literature, application of systems engineering principles, and reporting of technical results. The student becomes acquainted with the demands of initiative, knowledge, intuition, and resourcefulness required for the successful solution of inter disciplinary-open ended engineering problems. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level ME 4920 Minimum Grade of D-</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI4200</td>
<td>4200</td>
<td>Educational Interpreting</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Theoretical foundations related to best practices and educational interpreter performance. National, state, and local standards/requirements will be covered, including the EIPA. Educational settings and communication methods for Deaf and Hard of Hearing students will be discussed along with social, cognitive, and language development and the interpreters role in facilitating student independence and self-advocacy.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL3310</td>
<td>3310</td>
<td>Modern Political Phil</td>
<td>PHL</td>
<td>Philosophy</td>
<td>3</td>
<td>Classic texts and thinkers in political philosophy from the 16th century to the present. Topics include the foundations of society, theories of justice and rights, the concept of property, and the defense and critique of liberalism, democracy, socialism, and libertarianism. Readings may include Machiavelli, Hobbes, Locke, Hume, Rousseau, Smith, Mill, Marx, Nozick, Rawls, and Nussbaum.</td>
<td>UG</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Department</td>
<td>Type</td>
<td>Credit</td>
<td>Notes</td>
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<tr>
<td>PLS4871</td>
<td>4.871</td>
<td>Fundamentals of Intel Political Science</td>
<td>Immerse students in the fundamental logic principles of computer science.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>EC2040</td>
<td>2.040</td>
<td>Principle Microeconomics Economics</td>
<td>Fundamental principles of microeconomics as an aid in understanding modern society.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>EC3150</td>
<td>3.150</td>
<td>Internal Microeconomics Economics</td>
<td>Develop the analytical tools of microeconomics, stressing market behavior of firms, industries, and consumers. Examine the production process and the operation of market mechanisms. Policy implications are emphasized.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY6420</td>
<td>6.420</td>
<td>Organizational Psy Cap Psychology</td>
<td>Communication-intensive seminar integrating knowledge on Organizational Psychology.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>ME4730</td>
<td>4.730</td>
<td>Engineering Ceramics ME Mechanical and Materials Engr</td>
<td>Ceramic and refractory raw materials and products; atomic structure and bonding; structure of crystalline phases and glasses; structural imperfections; diffusion and permeability in oxides; and processing of ceramics.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>CS4370</td>
<td>4.370</td>
<td>Par Prog Many-Core GPUs Computer Science</td>
<td>This course will introduce an important trend in high-performance computing, the use of many-core graphics processing units (GPUs) to solve computation-intensive problems. Students will learn about new many-core GPU architecture, CUDA programming model, memory hierarchy design, parallel programming concepts, and compiling techniques to improve parallelism.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>CHI3700</td>
<td>3.700</td>
<td>Internship in Chinese CHI Chinese 1</td>
<td>Supervised use of Chinese in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum 45 hours a semester for 1 credit, including at least 40 hours of on-site work. Senior standing and advisor permission required.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
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<tr>
<td>MGT7703</td>
<td>7.030</td>
<td>Sem Human Resource Mgt MGT Management</td>
<td>Analysis of the principal functions, processes, and problems involved in the management of human resources. Evaluation of personnel systems, with emphasis on implications of personnel policy and practice.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>ED4400</td>
<td>4.400</td>
<td>Teacher Music Ed Education 2</td>
<td>Teacher candidates will be provided the necessary knowledge and skills regarding issues affecting education to assist them in making a successful transition from being a teacher-candidate to becoming a professional educator.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>ED6160</td>
<td>6.160</td>
<td>Practicum: Anat for Ed Anatomy students, mentored/supervised by an Anatomy educator, shall assist in the planning, organizing, delivering, and assessing of instruction in an educational setting applying pedagogical content knowledge in the academic area of Anatomy</td>
<td>Anatomy students, mentored/supervised by an Anatomy educator, shall assist in the planning, organizing, delivering, and assessing of instruction in an educational setting applying pedagogical content knowledge in the academic area of Anatomy</td>
<td>GR</td>
<td>IN</td>
<td>Internship</td>
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<tr>
<td>SOC4610</td>
<td>4.610</td>
<td>Gender and Crime SOC Sociology 3</td>
<td>Examine how crime and the criminal justice system are shaped by gendered social forces. Specifically addresses how these forces affect crime-related constituencies including perpetrators, workers, victims/survivors, and society as a whole.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>GR2010</td>
<td>2.010</td>
<td>Intermediate Greek I GR Greek 3</td>
<td>Review of essentials and reading for comprehension in selected authors.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>MTH3140</td>
<td>3.140</td>
<td>Mathematical Software MTH Mathematics</td>
<td>Solving scientific problems using computational software packages MATLAB and Mathematica, including procedural and functional programming.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>CS3800</td>
<td>3.800</td>
<td>Web Development II CS Computer Science</td>
<td>Focuses on server side web development. Topics include creation of dynamic web pages, processing form data, database design and interaction, managing cookies and sessions, and security. Students will use a current server-side language such as PHP and a database management system such as MySQL.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>ENG3210</td>
<td>3.210</td>
<td>British Texts: to 1660 ENG English 3</td>
<td>Representative works of major English writers of the medieval period and the 16th and 17th centuries.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>CS2900</td>
<td>2.900</td>
<td>Spec Topics in Comp Sci CS Computer Science</td>
<td>Special Topics in Computer Science.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>ECE3500</td>
<td>3.500</td>
<td>Fam, Comm, &amp; Schools ECE Education - Early Childhood</td>
<td>Early childhood educators collaborating with families and diverse backgrounds in the care and education of children, birth-age 8; building curriculum that addresses the needs of English Language Learners.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>BIO1080</td>
<td>1.080</td>
<td>Intro to Public Health BIO Biology</td>
<td>Concepts and practices in public health. Students will explore the history, purposes, structures, policies, and programs that contribute to the effort to create an environment that promotes healthful living, with application to domestic and international circumstances.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY2002</td>
<td>2.002</td>
<td>PSY Elective Topics PSY Psychology 1</td>
<td>A variable elective topic in psychology. Topics vary.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Prerequisites</td>
<td>Grade</td>
<td>Instructor</td>
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<tr>
<td>MTH2300</td>
<td>3</td>
<td>Calculus I</td>
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<tr>
<td>MTH2530</td>
<td>3</td>
<td>Elementary Linear Alg</td>
<td>MTH Mathematics</td>
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<tr>
<td>MGT7710</td>
<td>3</td>
<td>Fundamentals of Proj Mgt</td>
<td>MGT Management</td>
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<tr>
<td>ART4040</td>
<td>3</td>
<td>Studies in Art History</td>
<td>ART Art</td>
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<tr>
<td>ED7170</td>
<td>3</td>
<td>Word Study and Phonics</td>
<td>ED Education</td>
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<tr>
<td>ED6940</td>
<td>3</td>
<td>Cont Sem: AYA/ILA</td>
<td>ED Education</td>
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<tr>
<td>EE4750</td>
<td>3</td>
<td>Intro to Radar Systems</td>
<td>EE Electrical Engineering</td>
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<tr>
<td>SLI4570</td>
<td>3</td>
<td>Medical Interpreting</td>
<td>SLI Sign Language Interpreting</td>
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<tr>
<td>ED1030</td>
<td>3</td>
<td>Dev Peer Mentr w Disability</td>
<td>ED Education</td>
<td></td>
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<tr>
<td>SOC4080</td>
<td>4</td>
<td>Independent Study</td>
<td>SOC Sociology</td>
<td></td>
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<tr>
<td>BIO2200</td>
<td>3</td>
<td>Microbiology-Human Env</td>
<td>BIO Biology</td>
<td></td>
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<tr>
<td>ART3110</td>
<td>3</td>
<td>Ancient/Classical Art</td>
<td>ART Art</td>
<td></td>
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<tr>
<td>BMB4001</td>
<td>4</td>
<td>Fundamentals of Biochem</td>
<td>BMB Biochem &amp; Molecular Biology</td>
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<tr>
<td>ED7500</td>
<td>3</td>
<td>Literacy Assess and Eval</td>
<td>ED Education</td>
<td></td>
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<tr>
<td>PPH7710</td>
<td>3</td>
<td>Global Health</td>
<td>PPH Population &amp; Public Health</td>
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<tr>
<td>ED4010</td>
<td>3</td>
<td>Adv Rdg in Content Area</td>
<td>ED Education</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Course Type</td>
<td>Department</td>
<td>Course Type</td>
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<tr>
<td>ART5970</td>
<td>Art Education - Internship II</td>
<td>3</td>
<td>Supervised independent field experience and practical work in all areas of Art Museum management in the university and greater Dayton area communities. Each student handled as a tutorial intern.</td>
<td>GR IS</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>EED3300</td>
<td>Intro to Child Dev</td>
<td>3</td>
<td>The physical, cognitive, language, social, and emotional development (typical and atypical) of children prenatal through age eight.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>ED1010</td>
<td>Teaching Profession</td>
<td>1</td>
<td>Overview of the teaching profession.</td>
<td>UG LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>MP3990</td>
<td>Studies Select Subjects</td>
<td>1</td>
<td>Practical experience or research in topics in the field of motion pictures. Topics vary.</td>
<td>UG LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>UH4000</td>
<td>Unv Honors Seminar</td>
<td>3</td>
<td>Emphasis on broadly interdisciplinary topics or issues. Integrated Writing course.</td>
<td>UG SE</td>
<td>Seminar</td>
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<tr>
<td>BIO4080</td>
<td>Writing in the Bio Sci</td>
<td>3</td>
<td>Surveys grammatical and stylistic aspects of scientific writing and teaches students how to organize, write, and submit a manuscript for publication in a biological journal. Grant writing will also be discussed. Integrated Writing course.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>ME4360</td>
<td>Prn-Internal Combustion</td>
<td>3</td>
<td>Thermodynamics of internal combustion engines, combustion thermodynamics, friction, heat and mass losses, and computer control of the modern fuel-injected internal combustion engine.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>BIO3160L</td>
<td>Vertebrate Zoology Lab</td>
<td>0</td>
<td>Required laboratory for BIO 3160.</td>
<td>UG LB</td>
<td>Lab</td>
<td></td>
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<tr>
<td>EGR3940</td>
<td>Internship II</td>
<td>3</td>
<td>Second internship course. Students are supervised via weekly seminars and regular feedback from employers.</td>
<td>UG IN</td>
<td>Internship</td>
<td></td>
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<tr>
<td>BIO4360</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Information technology as an enabler of improved supply chain performance. Managing material and information outside the factory walls. Includes supply chain technology, ERP systems, e-business and collaborative technologies, synchronizing technologies, and RFID. Recommended processes for the evaluation, selection, and implementation of appropriate technologies. This course has a fee that is non-refundable once the term begins.</td>
<td>UG LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>BIO6460</td>
<td>Advanced Cell Biology</td>
<td>3</td>
<td>Students will gain a thorough understanding about eukaryotic cell structures and functions including the organization of the cell nucleus, DNA replication, the multiple steps of gene expression, membrane composition and dynamics, and the importance of the cytoskeleton for cell motility, cell division and cell adhesion.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>SC7950</td>
<td>Info Tech &amp; Supply Chain</td>
<td>3</td>
<td>This course covers the staffing process. Topics include human resource planning, recruitment, selection, measurement in selection, legal issues in staffing, job analysis, decision making, and retention management.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MGT6260</td>
<td>Staffing Management</td>
<td>3</td>
<td>Emphasis is on modern views on fiscal and monetary policy in an open economy.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>EC7170</td>
<td>Applied Macroecon Analy</td>
<td>3</td>
<td>Emphasis is on modern views on fiscal and monetary policy in an open economy.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>PSY3630L</td>
<td>Condition &amp; Learning Mth Lab</td>
<td>0</td>
<td>Required laboratory for PSY 3630.</td>
<td>UG LB</td>
<td>Lab</td>
<td></td>
<td></td>
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<tr>
<td>PL5790</td>
<td>Practicum</td>
<td>1</td>
<td>Field experience for students in selected settings. Jointly supervised by faculty and on-site personnel.</td>
<td>GR PR</td>
<td>Practicum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDS6570</td>
<td>Inst &amp; Beh Man Skls</td>
<td>3</td>
<td>Prepares intervention specialists and other professionals to meet the instructional and behavioral management demands particular to working with individuals with exceptionalities, including those with severe emotional disturbance. Fifteen hours field experience required.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>KNH1980B</td>
<td>Zumba</td>
<td>1</td>
<td>Fundamental skills and knowledge of Zumba. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG LB</td>
<td>Lab</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SOC5320</td>
<td>Sociology of Work</td>
<td>3</td>
<td>Investigation, analysis, and discussion of contemporary theories focusing on the relationship of the individual to work.</td>
<td>GR LE</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>EES6740</td>
<td>Fund Occup Hlth &amp; Safety</td>
<td>3</td>
<td>Introduction to accident recognition, evaluation, and control in the work environment by hands-on equipment use. Emphasis on methods of hazard recognition and control management. Methods of inspection, accident investigation, and evaluation of accident programs are stressed.</td>
<td>GR LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
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</tbody>
</table>
Spring 2021  PSU8420  8420  Crisis Intervention  PSI  Professional Psychology  3  Theory and definition of crisis; individual and community support systems and crisis programs in hospitals, suicide and crisis centers, and office, family, and other settings.  GR  LL  Lecture/Lab Combination

Spring 2021  CHM4020L  4020L  Environmental Chemistry Lab  CHM  Chemistry  0  Required laboratory for CHM 4020.  UG  LB  Lab

Spring 2021  SPN3310  3310  Survey of Spanish Lit  SPN  Spanish  3  Historical survey of Spanish literature from the Middle Ages to contemporary period. Department Managed Prerequisite(s): (Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D) and (Undergraduate level SPN 3110 Minimum Grade of D or Undergraduate level SPN 3120 Minimum Grade of D or Undergraduate level SPN 3220 Minimum Grade of D or Undergraduate level SPN 3260 Minimum Grade of D or Undergraduate level SPN 3320 Minimum Grade of D or Undergraduate level SPN 3430 Minimum Grade of D or Undergraduate level SPN 3440 Minimum Grade of D or Undergraduate level SPN 3610 Minimum Grade of D or Undergraduate level SPN 3980 Minimum Grade of D or Undergraduate level SPN 3990 Minimum Grade of D).  UG  LE  Lecture

Spring 2021  MTH6550  6550  Advanced Linear Algebra  MTH  Mathematics  3  Basic principles of linear independence, spanning sets, bases, and dimension. Linear transformations, matrix representations of linear transformations, and determinants. Spectral theory of square matrices, Jordan canonical form. Perron-Frobenius results on positive matrices. Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D and Undergraduate level MTH 2800 Minimum Grade of D.  GR  LE  Lecture

Spring 2021  KNH1700B  1700B  Tai Chi  KNH  Kinesiology & Health  1  Fundamental skills and knowledge of Tai Chi. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab

Spring 2021  BMS7110  7110  Biomedical Signals  BMS  Biomedical Sciences  3  Study of techniques for the analysis of signals and systems, with a particular emphasis on the use of mathematical tools for analysis of medical imaging systems and data. Time-domain and frequency-domain analysis of continuous-time and discrete-time signals, sampling theory, 2D FFT, Fourier Slice Theorem, Hilbert transform.  GR  LE  Lecture

Spring 2021  CHI5500  5500  CHI Ambassador Program  CHI  Chinese  3  Professor-led study abroad program in China; may include service-learning component; taught in Chinese. Department Managed Prerequisite(s): Undergraduate level CHI 1010 Minimum Grade of D and Undergraduate level CHI 1020 Minimum Grade of D or AP Chinese Language & Culture 3.  GR  LE  Lecture

Spring 2021  CS3970  3970  Independent Study  CS  Computer Science  1  Independent study in computer science.  UG  IS  Independent Study

Spring 2021  PSY8770  8770  Org. Dev. & Change  PSY  Psychology  2  Overview of the systems approach to organizational diagnosis, planning, and intervention in human service organizations. Behavioral interventions are emphasized.  GR  SE  Seminar

Spring 2021  SW4860  4860  SW Field Practicum I  SW  Social Work  3  First of two field practicum courses where students apply generalist social work practice knowledge to practice in agency settings. Individual learning experiences under the supervision of an agency field instructor, with guidance from the faculty-field liaison. Department Managed Prerequisite(s): Undergraduate level SW 3700 Minimum Grade of D and Undergraduate level SW 3750 Minimum Grade of D and Undergraduate level SW 3800 Minimum Grade of D and Undergraduate level SW 4900 Minimum Grade of D.  UG  PR  Practicum

Spring 2021  LAT5530  5530  Readings in Roman Epic  LAT  Latin  3  Virgil's Aeneid, Ovid's Metamorphoses; Lucan, Statius, Valerius Flaccus, and Stillus. Topics include intent and structure of the Aeneid, history and development of the Roman Epic, structure and transitional devices in the Metamorphoses, and the nature of rhetorical epic. Titles vary.  GR  LE  Lecture

Spring 2021  ED6120  6120  Early Lit Assess/Inst II  ED  Education  3  Teachers deepen their understanding of Clay’s literacy processing theory and contingent instruction while tutoring students who struggle with literacy. Key concepts include teaching for phrased reading, fluent processing and flexible problem solving.  GR  LE  Lecture

Spring 2021  ED6975  6975  Cont Sem: MA/CIS  ED  Education  3  Seminar accompanying Multi Age Internship focusing on pedagogical content knowledge in Computer Information Science, assessment of the International Society for Technology in Education standards and the completion of the professional portfolio.  GR  SE  Seminar

Spring 2021  EE7260  7260  Autonomous Unmanned Syst  EE  Electrical Engineering  3  Understand quadrotor dynamics and construct state space models, conduct system identification using least squares, understand LQR theory and apply it for designing state feedback control laws for quadrotor attitude and position control, and understand extended Kalman filter theory and apply it to quadrotor state estimation.  GR  LL  Lecture/Lab Combination
<p>| Spring 2021 | ANT5120 | 5120 | Adv Hum Str &amp; Func II | ANT | Anatomy | 4 | Detailed study of the structure and function of the human body. The course begins with the endocrine system and moves onto the cardiovascular system and lymphatic system. This is then followed by the respiratory system and urinary system. The course concludes with acid-base balance, fluid balance, reproductive system and digestive system. Laboratory exercises use human donors. | GR | LE | Lecture |
| Spring 2021 | ATR3850 | 3850 | Upper body Assessment | ATR | Athletic Training | 2 | Clinical/practicum course emphasizing upper body injury assessment skills. | UG | CL | Clinical |
| Spring 2021 | HST6700 | 6700 | 20th-Century US History | HST | History | 3 | Examines particular stages of the 20th-Century American experience (e.g., the Progressive Era) or selected topics (e.g., the Civil Rights Movement). Topics vary. | GR | LE | Lecture |
| Spring 2021 | BIO6090 | 6090 | Intro to R w/App in Bio | BIO | Biology | 3 | The goal of this class is to learn programming biostatistics in the statistical software package R. | GR | LE | Lecture |
| Spring 2021 | PSI9540 | 9540 | Dev. Behavioral Peds II | PSI | Professional Psychology | 3 | Part two of a two-sequence course addressing a wide range of developmental and behavioral difficulties from conception through late adolescence. Part two places emphasis on assessment, management, and treatment of developmental and behavioral factors involved in the causation or maintenance of pediatric concerns such as various medical diagnoses with behavioral components such as diabetes and asthma, childhood obesity, and regulatory disorders (toileting, discipline difficulties, sleep, feeding/eating). Additional focus will be placed on adherence to medical regimen, quality of life, pain assessment and management, and evidence-based approaches. | GR | LE | Lecture |
| Spring 2021 | PLS4710 | 4710 | International Law | PLS | Political Science | 3 | Study of rules governing the conduct of international politics with emphasis on their relevance to current world problems. | UG | LE | Lecture |
| Spring 2021 | REL5460 | 5460 | Confucianism | REL | Religion | 3 | A survey of Confucianism in Chinese history beginning with various classical expressions of Confucian thought such as: Confucius/Analects, Mencius, and Xunzi. Focus on two influential Neo-Confucian thinkers: Zhu Xi and Wang Yangming. Consideration of the modern fate of Confucianism in Chinese society and culture. Important topics include: heaven, human nature and self-cultivation, conceptions of the sage, and Confucian political philosophy. | GR | LE | Lecture |
| Spring 2021 | TH3990 | 3990 | Selected Subjects | TH | Theatre | 1 | Variable content dealing with problems, approaches, and topics in the field of theatre. | UG | LL | Lecture/Lab Combination |
| Spring 2021 | OIS1260 | 1260 | Spreadsheet Applications | OIS | Office Information Systems | 3 | Prepares students to understand and use spreadsheets for office applications using Microsoft Excel. | UG | LE | Lecture |
| Spring 2021 | PSY3830 | 3830 | Cognitive Neuro Methods | PSY | Psychology | 4 | Research methods used in cognitive neuroscience. Hands-on experience with the design of neuroscientific experiments, data collection, data analysis, as well as communication of data through writing. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | GR1010 | 1010 | Beginning Greek I | GR | Greek | 3 | Essentials of the Greek language. | UG | LE | Lecture |
| Spring 2021 | MTH6060 | 6060 | Mathematical Modeling | MTH | Mathematics | 3 | An introduction to mathematics as it is used in the real world. Graphical methods, curve-fitting, dimensional analysis, scaling, stability, growth, vibrations, circuits, probability, optimality, approximation, Monte Carlo simulation. Students will be encouraged to make creative use of mathematical and problem-solving skills, and asked to develop an original model. | GR | LE | Lecture |
| Spring 2021 | PLS6730 | 6730 | American Foreign Policy | PLS | Political Science | 3 | Investigates the role of the United States in contemporary international politics and the relationship of the domestic political system to that role. Discussion of current policy and events included. | GR | LE | Lecture |
| Spring 2021 | EGR7020 | 7020 | Systems Engrg &amp; Analysis | EGR | Engineering | 3 | Exposes students to the design of systems and tools for the analysis of complex technological systems. | GR | LE | Lecture |
| Spring 2021 | TH4350 | 4350 | Portfolio Preparation | TH | Theatre | 3 | Prepares upper-division students for the professional world. Portfolio formats, both traditional and digital. Effective techniques for the presentation of portfolios and employment strategies. | UG | ST | Studio |
| Spring 2021 | ECO5230 | 5230 | Strech Your Buck | ECO | Center for Economic Educ. | 2 | Financial planning and personal finance topics geared toward the family, with emphasis on aspects teachable in the K-12 classroom. This course has a fee that is non-refundable once the term begins. | GR | LL | Lecture/Lab Combination |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Department</th>
<th>Grade Level</th>
<th>Type</th>
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<tr>
<td>CTE4250</td>
<td>Curriculum &amp; Assessment</td>
<td>4250</td>
<td>Career and Technical Education</td>
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<td>Lecture</td>
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<tr>
<td>TH2190</td>
<td>Stage Lighting I</td>
<td>2190</td>
<td>Theatre</td>
<td>TH</td>
<td>GR</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>CRTL040</td>
<td>Correct Procedures and Operations</td>
<td>1040</td>
<td>Corrections</td>
<td>CRTL</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>IHE7980</td>
<td>Special Topics in IHE II</td>
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<td>Industrial &amp; Human Fac Engr</td>
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<td>Lecture</td>
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<tr>
<td>CEG1780A</td>
<td>Weight Training</td>
<td>1780A</td>
<td>Kinesiology &amp; Health</td>
<td>KHN</td>
<td>UG</td>
<td>Lab</td>
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<td>CS4710</td>
<td>Introductory Data Mining</td>
<td>4710</td>
<td>Computer Science</td>
<td>CS</td>
<td>LE</td>
<td>Lab</td>
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<td>SW7630</td>
<td>SW Field Ed III</td>
<td>7630</td>
<td>Social Work</td>
<td>SW</td>
<td>IN</td>
<td>Internship</td>
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<td>MUS3110</td>
<td>History of Music I</td>
<td>3110</td>
<td>MUS</td>
<td>MUS</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>ME4210L</td>
<td>Mechanical Vibration Lab</td>
<td>4210L</td>
<td>Mechanical and Materials Engr</td>
<td>ME</td>
<td>UG</td>
<td>Lab</td>
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<td>MLB4311</td>
<td>Basic Hematology Lab</td>
<td>4311</td>
<td>Medical Laboratory Science</td>
<td>MLB</td>
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<td>Lab</td>
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<tr>
<td>ML3500</td>
<td>Ambassador Prog Abroad</td>
<td>3500</td>
<td>Modern Languages</td>
<td>ML</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>BMS9980</td>
<td>Laboratory Rotation III</td>
<td>9980</td>
<td>Biomedical Sciences</td>
<td>BMS</td>
<td>GR</td>
<td>Lecture</td>
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<td>CEG4990</td>
<td>Undergraduate Thesis</td>
<td>4990</td>
<td>Computer Engineering</td>
<td>CEG</td>
<td>UG</td>
<td>Independent Study</td>
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<td>GER5320</td>
<td>Survey of German Lit II</td>
<td>5320</td>
<td>German</td>
<td>GER</td>
<td>GR</td>
<td>Lecture</td>
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<td>CEG6322L</td>
<td>VLSI Design Lab</td>
<td>6322L</td>
<td>Computer Engineering</td>
<td>CEG</td>
<td>UG</td>
<td>Lab</td>
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<tr>
<td>ART2320</td>
<td>Sculpture for Non-Majors</td>
<td>2320</td>
<td>Art</td>
<td>ART</td>
<td>UG</td>
<td>Studio</td>
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<td>KNH1620A</td>
<td>Stretch &amp; Tone/Pilates</td>
<td>1620A</td>
<td>Kinesiology &amp; Health</td>
<td>KNH</td>
<td>UG</td>
<td>Lab</td>
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<td>CHM7010</td>
<td>Thesis</td>
<td>7010</td>
<td>Chemistry</td>
<td>CHM</td>
<td>LE</td>
<td>Lecture</td>
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<td>CSD3870</td>
<td>CSD Practicum II</td>
<td>3870</td>
<td>Community Services Development</td>
<td>CSD</td>
<td>UG</td>
<td>Practicum</td>
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<td>Code</td>
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<td>Description</td>
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<td>Spring 2021</td>
<td>BME3211</td>
<td>Human Biomechanics I</td>
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<tr>
<td>Spring 2021</td>
<td>MI7270</td>
<td>Pathogenic Microbiology</td>
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<td>GR</td>
<td>LR</td>
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<tr>
<td>Spring 2021</td>
<td>ECE5030</td>
<td>ECEG Effective Sci Instr</td>
<td>3</td>
<td>Methods for teaching middle level science pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula, and materials suitable for teaching fourth and fifth grade science education.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE6300</td>
<td>Phonics &amp; Word Study</td>
<td>3</td>
<td>An in-depth analysis of how children learn printed words and use this knowledge while reading and writing.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4700L</td>
<td>Introduction to MEMS Lab</td>
<td>4</td>
<td>Experimental design, realization and testing of MEMS devices with emphasis on sensing applications.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH2000</td>
<td>Acting/Tech Practicum</td>
<td>2</td>
<td>Designed to give actors and technician/designers an opportunity to receive academic credit for significant involvement in departmental or approved, supervised professional productions. Project will carry specific requirements and obligations to be agreed upon in writing by faculty supervisors and the student.</td>
<td>UG</td>
<td>PR</td>
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<tr>
<td>Spring 2021</td>
<td>BME7135</td>
<td>Photon Emission Imaging</td>
<td>3</td>
<td>Principles of imaging procedures based on radioactive isotopes. Topics include radioactive isotopes, gamma camera physics, single-photon-emission tomography, and positron-emission tomography. Each topic covers instrumentation, image production, and major applications.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI8430</td>
<td>Behav. &amp; Cognitive Ther.</td>
<td>4</td>
<td>Provides students with the theoretical background, current research, and clinical applications of behavioral and cognitive therapies.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS2210</td>
<td>Logic for Comp Scientist</td>
<td>2</td>
<td>Fundamental material in foundations of logic most relevant to Computer Science. Propositional logic, predicate logic, modeling of knowledge, and algorithms for logical reasoning.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EE4480</td>
<td>Remote Sensing Det &amp; Sys</td>
<td>4</td>
<td>Learn to analyze and design electro-optic (EO), infrared (IR), and microwave (radar) detection systems commonly used in remote sensing. Topics include remote sensing applications, electromagnetic wave theory, black body radiation, optics and imaging systems, EO, IR and radar detector design specifications, basic detection and estimation theory, and basic laboratory measurements with EO, IR and radar detectors.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7060</td>
<td>Theory Found in Literacy</td>
<td>3</td>
<td>Development of an understanding regarding the historical, linguistic, sociological and psychological/cognitive theories related to effective literacy instruction and education.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME1040</td>
<td>EGR Design &amp; Solid Model</td>
<td>3</td>
<td>Fundamentals of blue-print reading, technical sketching, mechanical drawing, CAD, modeling and prototyping and computer-assisted tools. Topics include safety, ethics, product liability, teamwork and personal responsibilities. Preps students for the CATI Certified Solidworks Associate (CSWA) certification exam. Communication skills and economic considerations are stressed.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4020</td>
<td>Topics: Advanced Writing</td>
<td>3</td>
<td>Advanced study of specialized topics and problems in writing.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT7670</td>
<td>Appl Regression Analysis</td>
<td>3</td>
<td>Multiple linear regression with introduction to more complicated models, including nonlinear models and weighted least squares. Up-to-date computing techniques including nonparametric regression techniques.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ARA3980</td>
<td>Studies in Select Subj</td>
<td>1</td>
<td>Individual research project approved and supervised by a full-time faculty member. Taught in Arabic.</td>
<td>UG</td>
<td>LE</td>
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<td>Course Title</td>
<td>Credits</td>
<td>Units</td>
<td>Area of Study</td>
<td>CRN</td>
<td>Section</td>
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<td>MTE6400</td>
<td>History of Mathematics</td>
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<td>400</td>
<td>Mathematics</td>
<td>GR</td>
<td>LE</td>
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<td>EDL9955</td>
<td>Superintendent Practicum</td>
<td>9</td>
<td>955</td>
<td>Educational Leadership</td>
<td>GR</td>
<td>IN</td>
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<td>EES1050</td>
<td>Dynamic Earth</td>
<td>10</td>
<td>50</td>
<td>Earth &amp; Environmental Sciences</td>
<td>GR</td>
<td>LE</td>
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<td>URS3000</td>
<td>Intro to Cities&amp;Communities</td>
<td>3</td>
<td>3000</td>
<td>Urban Affairs</td>
<td>GR</td>
<td>LE</td>
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<td>PLS4100</td>
<td>Political Psychology</td>
<td>4</td>
<td>100</td>
<td>Political Science</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>ATH6100</td>
<td>Spec Topics-Cultural ATH</td>
<td>6</td>
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<td>GR</td>
<td>LE</td>
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<td>NUR8900</td>
<td>DNP Leadership Practicum</td>
<td>8</td>
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<td>Nursing</td>
<td>GR</td>
<td>PR</td>
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<td>TH3730</td>
<td>MT History/Lit II</td>
<td>3</td>
<td>3730</td>
<td>Theatre</td>
<td>GR</td>
<td>LE</td>
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<td>0910</td>
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<td>Cooperative Education</td>
<td>CPE</td>
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<td>Microbiology Seminar</td>
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<td>Studies 20th Century Art</td>
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<td>MI8000</td>
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<td>CS7950</td>
<td>7950</td>
<td>MSCS Thesis Research</td>
<td>Computer Science</td>
<td>GR</td>
<td>Independent Study</td>
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<td>ATH2200</td>
<td>2200</td>
<td>Intro to Archaeology</td>
<td>Anthropology</td>
<td>GR</td>
<td>Independent Study</td>
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<td>ART5010</td>
<td>5010</td>
<td>Independent Study in Art</td>
<td>Art</td>
<td>GR</td>
<td>International Study</td>
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<td>OL4025</td>
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<td>Comm-Based Internship</td>
<td>Organizational Leadership</td>
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<td>Internship</td>
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<td>ME4150</td>
<td>4150</td>
<td>Mechanical Design II</td>
<td>Mechanical and Materials Engr</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td></td>
<td>BMS7461</td>
<td>7461</td>
<td>Rehab Eng Computers I</td>
<td>Biomedical Sciences</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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<td>Intro to EE</td>
<td>Electrical Engineering</td>
<td>UG</td>
<td>Lecture</td>
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<td></td>
<td>LE1150</td>
<td>1150</td>
<td>Police Academy</td>
<td>Law Enforcement</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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</table>

*Note: The table represents a selection of courses offered in Spring 2021, indicating credits, titles, and departments. Courses like "Internship" and "Cooperative" indicate practical or real-world learning experiences. The "Combination" code indicates courses that are offered in various combinations. The "UG" column denotes university-level courses, while "Lab" and "Seminar" are specific types of instruction.*
<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<th>Type</th>
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<tbody>
<tr>
<td>ECO7590</td>
<td>5090</td>
<td>Nanomedicine: Cutting-edge nanomedical technologies for sensing and imaging, drug delivery, and therapeutic applications will be addressed.</td>
<td>0.5</td>
<td>Independent study in a selected area of special education.</td>
<td>IS</td>
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<tr>
<td>ECO5580</td>
<td>5580</td>
<td>ECO and Geography</td>
<td>2</td>
<td>This course will focus on two specific geographic perspectives: spatial and ecological--to help students understand spatial patterns and processes and the interaction of living and nonliving elements in complex webs of relationships within nature and between nature and society. People look at the world from varying personal perspectives shaped by complex combinations of personal experience, occupational roles, self-interest, and community interest. This course has a fee that is non-refundable once the term begins.</td>
<td>Lab</td>
</tr>
<tr>
<td>MUS1140</td>
<td>1140</td>
<td>Fund of Musicianship I</td>
<td>3</td>
<td>Class instruction in functional music theory, sight-singing and musicianship skills, keyboard skills including technique, chord inversions, harmonization, sight reading, and performing repertoire pieces.</td>
<td>LE</td>
</tr>
<tr>
<td>ART4660</td>
<td>4660</td>
<td>Art</td>
<td>3</td>
<td>Development of personalized concepts and individual aesthetic expression in printmaking. This course has a fee that is non-refundable once the term begins.</td>
<td>LB</td>
</tr>
<tr>
<td>KNH1670B</td>
<td>1670B</td>
<td>Swimming: Intermediate</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Swimming: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>LB</td>
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<tr>
<td>TH2020</td>
<td>2020</td>
<td>Sound Design</td>
<td>3</td>
<td>Introduction to the craft and art of sound design. Emphasis on physics of sound, signal flow, basic equipment usage and maintenance. Includes theory and practices for both reinforced sound and sound scores for the theatre.</td>
<td>Lab</td>
</tr>
<tr>
<td>PSY5000</td>
<td>5000</td>
<td>PSY Core Topics</td>
<td>1</td>
<td>A selected topic in a core area of psychology. The topic and structure of this course will vary according to the discretion of the instructor.</td>
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</tr>
<tr>
<td>EDS6300</td>
<td>6300</td>
<td>Workshops in Education</td>
<td>0.5</td>
<td>Workshops in selected areas of education taught through the Division of Professional Development (DPD).</td>
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<tr>
<td>HPR4290</td>
<td>4290</td>
<td>K-12 Practicum</td>
<td>12</td>
<td>Supervised full-time student teaching in a K-12 school setting.</td>
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<tr>
<td></td>
<td></td>
<td>Study Ancient/Classical Art</td>
<td>3</td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td>Lecture</td>
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<tr>
<td>MUS3250</td>
<td>3250</td>
<td>Choral Conducting</td>
<td>2</td>
<td>Practical applications of conducting, teaching, and rehearsing in actual conducting situations with live performers.</td>
<td>UG</td>
</tr>
<tr>
<td>PTX9000</td>
<td>9000</td>
<td>Intro to Research</td>
<td>3</td>
<td>Three practical laboratory experiences in three week rotations each. The students will spend 3 weeks in 3 laboratories and each rotation will be concluded with a 2 page summary, signed by the laboratory PI. Upon completion the Pharm Tox student should have a laboratory picked to complete thesis work.</td>
<td>LL</td>
</tr>
<tr>
<td>ECO5580</td>
<td>5580</td>
<td>ECO and Geography</td>
<td>2</td>
<td>This course will focus on two specific geographic perspectives: spatial and ecological—to help students understand spatial patterns and processes and the interaction of living and nonliving elements in complex webs of relationships within nature and between nature and society. People look at the world from varying personal perspectives shaped by complex combinations of personal experience, occupational roles, self-interest, and community interest. This course has a fee that is non-refundable once the term begins.</td>
<td>Lab</td>
</tr>
<tr>
<td>MUS1140</td>
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<td>Fund of Musicianship I</td>
<td>3</td>
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<td>LE</td>
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<tr>
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<td>Feminism</td>
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**Spring 2021**

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<td>Introduction to the Quantum Mechanics</td>
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<td>MUA3210</td>
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<td>Applied Music</td>
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**Notes:**
- All students must have auditioned for and have received departmental approval before registering for applied music.
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<th>Course Code</th>
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<th>Level</th>
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<th>Class Type</th>
<th>Location</th>
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<td>ASL2010</td>
<td>Intermediate ASL I</td>
<td>ASL</td>
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<td>2010</td>
<td>An intermediate course in American Sign Language that continues to develop grammatical and vocabulary competency, fluency in conversational ranges, and increases knowledge of the Deaf community and its cultural aspects. Outside activity required.</td>
<td>Lecture</td>
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<tr>
<td>PSI9140</td>
<td>Educational Assessment</td>
<td>PSI</td>
<td></td>
<td>GR</td>
<td>9140</td>
<td>Covers the issues and methods surrounding the assessment of various types of academic/learning problems including academic under preparation, impact of psychological impairment, impact of physical impairment, specific learning disabilities, and adult ADHD.</td>
<td>Lecture</td>
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<td>GR</td>
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<td>HST4500</td>
<td>Latin American History</td>
<td>HST</td>
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<td>UG</td>
<td>4500</td>
<td>Examines selected Latin American nations and regions (e.g., Mexico, Argentina) and particular topics (e.g., Authoritarianism) in detail. Topics vary. Integrated Writing course.</td>
<td>Lecture</td>
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<td>UG</td>
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<tr>
<td>PTX8061</td>
<td>Six Sigma, Black Belt</td>
<td>PTX</td>
<td></td>
<td>GR</td>
<td>8061</td>
<td>This course is an introduction to the tools and techniques of the Lean Six Sigma philosophy of management that focuses on eliminating defects through practices that emphasize understanding, measuring, and improving processes. The Black Belt course focuses on the advanced analytical tools for process improvement. Topics covered in the Green Belt course will only be explored at a deeper level.</td>
<td>Lecture</td>
<td></td>
<td>GR</td>
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<tr>
<td>ENG4700</td>
<td>TEFL Theory and Culture</td>
<td>ENG</td>
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<td>UG</td>
<td>4700</td>
<td>Builds awareness of cultural similarities and differences and addresses the impact of cultural and personal variables on English language learning in an international setting. Provides an understanding of the language acquisition process.</td>
<td>Lecture</td>
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<td>UG</td>
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<td>STT4860</td>
<td>Ind Read Stat and Prob</td>
<td>STT</td>
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<td>UG</td>
<td>4860</td>
<td>Independent study in statistics and probability.</td>
<td>Independent Study</td>
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<td>MKT3200</td>
<td>Principles of Selling</td>
<td>MKT</td>
<td></td>
<td>UG</td>
<td>3200</td>
<td>Introduces professional selling in the business environment. Includes sales ethics and professionalism, persuasive communication, buying motives, and the professional selling process.</td>
<td>Lecture</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>BMS7080</td>
<td>Digital Signal Process</td>
<td>BMS</td>
<td></td>
<td>GR</td>
<td>7080</td>
<td>Introduces principles and applications of digital signal processing (DSP) from the design and implementation perspective. Introduction to advanced digital signal processing design concepts. Focus on time and frequency domain algorithms. Methods include multirate signal processing. Filter banks, time-frequency analysis, and wavelets.</td>
<td>Lecture</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>KNH1610B</td>
<td>Strengthen &amp; Tone</td>
<td>KNH</td>
<td></td>
<td>UG</td>
<td>1610B</td>
<td>Fundamental skills and knowledge of Strengthen &amp; Tone. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>Lab</td>
<td></td>
<td>UG</td>
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<tr>
<td>ME7060</td>
<td>Structural Reliability</td>
<td>ME</td>
<td></td>
<td>UG</td>
<td>7060</td>
<td>Analyze the uncertainties associated with mechanical and structural design. Methods to model various uncertainties in a design using probabilistic analysis tools. Computation of safety index and structural reliability using efficient techniques for implicit functions.</td>
<td>Lecture</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>ATH3320</td>
<td>Human Variation and Adpt</td>
<td>ATH</td>
<td></td>
<td>UG</td>
<td>3320</td>
<td>An exploration of biological variation in contemporary human populations and an examination of the genetic, physical, and cultural foundations of human biological diversity. Reviews selected population adaptations to specific environmental conditions. Emphasis on the interaction of biology and culture in human variation and adaptation. Considers the link between human variation science and U.S. society and culture.</td>
<td>Lecture</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>MBA7800</td>
<td>Supply Chain Mgmt</td>
<td>MBA</td>
<td></td>
<td>GR</td>
<td>7800</td>
<td>Explores the fundamentals of supply chain management, including the strategic role of the supply chain, key drivers of supply chain performance, and analytical tools and techniques for supply chain analysis. Cases and in-class exercises.</td>
<td>Lecture</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>EGR4980L</td>
<td>Special Topics in EGR Lab</td>
<td>EGR</td>
<td></td>
<td>UG</td>
<td>4980L</td>
<td>Required laboratory for EGR 4980.</td>
<td>Lab</td>
<td></td>
<td>UG</td>
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<tr>
<td>PL54920</td>
<td>Indep Field Research</td>
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<td>UG</td>
<td>4920</td>
<td>Supervised individual projects. May involve intern programs, field research or other specialized projects. Requires 3.0 GPA.</td>
<td>Independent Study</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>NUR4440C</td>
<td>Public Health Nursing Clinical</td>
<td>NUR</td>
<td></td>
<td>UG</td>
<td>4440C</td>
<td>Required clinical for NUR 4440.</td>
<td>Lab</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>PLS3370</td>
<td>The Legislative Process</td>
<td>PLS</td>
<td></td>
<td>UG</td>
<td>3370</td>
<td>Policy role, political functions, internal structure, and operation of Congress. Secondary concern for state legislatures and non-American legislative bodies. Integrated Writing course.</td>
<td>Lecture</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>ISE3512</td>
<td>Bioelectronics II</td>
<td>ISE</td>
<td></td>
<td>UG</td>
<td>3512</td>
<td>Modern electronic devices/circuits applied to human systems/biomedical applications, instrumentation, data collection. Reactive components, filters, semiconductors, op-amps, digital logic circuits in biomedical applications and devices. Hands-on laboratory component provides experience in designing, assembling, testing, and employing amplifiers, filters, digital logic circuits used for collecting and analyzing data related to biomedical engineering applications.</td>
<td>Lecture</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH6510</td>
<td>6510</td>
<td>Modern Algebra 1</td>
<td>MTH</td>
<td>Mathematics</td>
<td>3</td>
<td>Elementary number theory: divisibility, prime numbers, congruences, quadratic reciprocity, and number-theoretic functions. This provides an introduction to rings, integral domains, and fields. Department Managed Prerequisite(s): Undergraduate level MTH 2800 Minimum Grade of D</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0150</td>
<td>0150</td>
<td>List &amp; Speak - Level 1</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Listening, speaking and pronunciation for beginning level ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8290</td>
<td>8290</td>
<td>Learning w/ Disabilities</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>This course will introduce students to the major perspectives and cross-disciplinary theories in the area of human learning, to provide a foundation for the consideration of physical activities in this process. Upon completion of this course, students will be able to analyze learning activities for their joint cognitive, physical and social components, thereby extending contemporary theories of learning to the unique demands of learning with disabilities.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6240</td>
<td>6240</td>
<td>Oceanography</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>Introduction to the interrelated geology, physics, chemistry, and biology of the ocean.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS9610</td>
<td>9610</td>
<td>Neuromuscular Engineering</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Teaches the design and application of neuromuscular assistive devices. Emphasizes biomathematics modeling and control theory.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NEU1000</td>
<td>1000</td>
<td>Intro to Neuro Research</td>
<td>NEU</td>
<td>Neuroscience</td>
<td>2</td>
<td>Introduction to the primary neuroscience literature. Students will learn how to search for articles and begin to analyze the different components of them.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME1550</td>
<td>1550</td>
<td>Adaptive Computer Tech</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Presented for physically impaired students for the purpose of familiarizing them with adaptive computer usage. It is structured to teach necessary skills related to each student's rehabilitative needs.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN4110</td>
<td>4110</td>
<td>Mergers and Acquisitions</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Students will develop an in-depth understanding of how and when to apply the appropriate tools and skills to successfully complete a merger transaction or business acquisition and how to apply what has been learned to solving real world business problems.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE7200</td>
<td>7200</td>
<td>Adv Classroom Mgmt in EC</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Classroom management techniques within the framework of developmentally appropriate practices and constructivist education, identifying communication techniques that facilitate young children learning self-control.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX7003</td>
<td>7003</td>
<td>Biokinetics/Biodynamics</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>The course will track the absorption, distribution, inactivation and elimination of drugs and toxins. It will also present the principles of drug/toxin actions which underly their observed effects.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7735</td>
<td>7735</td>
<td>NNP Practice III</td>
<td>NUR</td>
<td>Nursing</td>
<td>7</td>
<td>Students will be asked to build upon prior learning, caring for ill newborns/infants and their families. Complex cases and multiple patient scenarios will be stressed. Application of research findings, leadership on the interprofessional team, planning and execution of complicated discharge, and innovations in care are all essential competencies.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6550</td>
<td>6550</td>
<td>U.S. Foreign Relations</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines main currents, prominent issues, key individuals and major events in the history of U.S. relations with other countries and regions. Topics vary.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHI5120</td>
<td>5120</td>
<td>Adv Chinese Conversation</td>
<td>CHI</td>
<td>Chinese</td>
<td>3</td>
<td>A continuation of Chinese 3110/5110 pursuing a balance of the four basic language skills: reading, writing, listening, and speaking in Chinese with a focus on conversation. Department Managed Prerequisite(s): Undergraduate level CHI 3110 Minimum Grade of D or Graduate level CHI 5110 Minimum Grade of D</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4260</td>
<td>4260</td>
<td>Intro Robotics</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>(Also listed as CEG 6560 and ME 6560.) An introduction to the mathematics of robots. Topics covered include coordinate systems and transformations, manipulator kinematics and inverse kinematics, Jacobians, dynamic and trajectory planning.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>OIS2120</td>
<td>2120</td>
<td>Financial Recordkeeping</td>
<td>OIS</td>
<td>Office Information Systems</td>
<td>3</td>
<td>Creating and managing business financial records for small and large offices.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3060</td>
<td>3060</td>
<td>Intro Literary Study</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Introduction to the discipline of English, with a focus on verse, narrative, textual analysis, literary theory, and integration of secondary sources in analytical arguments. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSC7950</td>
<td>7950</td>
<td>Sec Sys &amp; App S/W D&amp;D</td>
<td>PSC</td>
<td>Prof Psychology Cyber Security</td>
<td>3</td>
<td>Introduces implementing software security with software engineering best practices, fundamental tenets of security doctrine, and the incorporation of security throughout the software development lifecycle. Presents guidance for thorough and objective risk analyses and testing.</td>
<td>GR</td>
<td>LE</td>
</tr>
</tbody>
</table>
Covers cases and related materials on the Bill of Rights and the Fourteenth Amendment. Emphasis on the First Amendment freedoms concentrating on enforcement of civil rights and liberties under the Bill of Rights and the Fourteenth Amendment.

Introduction to African environments; diversity of cultural heritages; changes due to modernization; colonialism, slavery, and independence; a brief survey of the relations of Africa to other non-Western regions; and the contribution of Africa to world civilization. Integrated Writing course.


Laboratory exercises related to the fundamental concepts of high-frequency power magnetic components will be covered in this course. Computer simulations of magnetic field, current density, and power loss density distributions due to skin and proximity effects in inductor and transformer winding conductors at high frequencies will be performed. Simulations of hysteresis and eddy current losses in magnetic cores will be done. Evaluations of performance of integrated inductors will be performed.

Physiological and biochemical processes unique to microorganisms and the host response to microbes.

Thermodynamics applied to chemical systems: solids, liquids, gases, and mixtures thereof. Kinetic rates and mechanisms of chemical reactions in the gas phase and in solutions.

Develops linguistic analysis skills to help students recognize, analyze, and remediate written and spoken grammatical errors in ESL/EFL instructional contexts. Also focuses on pedagogical aspects of grammar instruction to native speakers of English. <b>Department Managed Prerequisite(s): Undergraduate level GER 2010 Minimum Grade of D or Graduate level GER 6710 Minimum Grade of D</b>

Characteristics, trends, history, strategic principles, and tactics for success in conducting international business. Non-business majors only.

Study of varied areas of film history. Titles and topics vary.

Progress and completion of a research project which is suitable for publication. <b>Department Managed Prerequisite(s): Undergraduate level GER 2010 Minimum Grade of D</b>

Theoretical study of music through written exercises including melody, harmony, rhythm, form and analysis.
<p>| Spring 2021 | BMB4990 | 4990 | Undergraduate Research | BMB | Biochem &amp; Molecular Biology | 1 | Biochemical and/or molecular biological research in a faculty member's laboratory. | UG | IS | Independent Study |
| Spring 2021 | LDR7300 | 7300 | Research Methods | LDR | Leadership | 3 | This course focuses on the need for learners to understand collecting, analyzing, and interpreting of data related to decision making in the workplace. Research concepts, reasoning, design and basic data analysis skills are introduced. | GR | LE | Lecture |
| Spring 2021 | KNH1620 | 1620 | Stretch &amp; Tone/Pilates | KNH | Kinesiology &amp; Health | 1 | Fundamental skills and knowledge of Stretch &amp; Tone/Pilates. Competency-based approach. Course may accommodate disabled students when appropriate. | UG | LB | Lab |
| Spring 2021 | MUS6010 | 6010 | Intro Grad Studies-Music | MUS | Music | 3 | Methods of scholarly investigation in music history, theory, and education; music bibliography; emphasis on individual projects and reports. | GR | LE | Lecture |
| Spring 2021 | CS1180L | 1180L | Computer Science I Lab | CS | Computer Science | 0 | Required laboratory for CS 1180. Integrated Writing course. | UG | LB | Lab |
| Spring 2021 | DAN4310 | 4310 | Pointe Class | DAN | Dance | 1 | Emphasizes pointe work for the female dancer to develop strength on pointe for classical ballet. | UG | ST | Studio |
| Spring 2021 | EDS6080 | 6080 | Dysl Multi Sensory Instruction | EDS | Education - Special Education | 3 | Provides insight/in-depth knowledge regarding dyslexia: history, theory, brain-based research, methodologies, instructional strategies, effective instruction, assistive technology, structured language and phonics knowledge, research-supported instructional procedures and an overall holistic understanding of learners with dyslexia. | GR | LE | Lecture |
| Spring 2021 | BIO6560 | 6560 | Ecosystem/Global Change | BIO | Biology | 3 | Covers current understanding of ecosystem function and the impacts of humans on global biogeochemical cycles and the distribution of life on earth. | GR | LE | Lecture |
| Spring 2021 | MTH4990 | 4990 | Selected Topics in Math | MTH | Mathematics | 1 | Selected topics in mathematics. | UG | IS | Independent Study |
| Spring 2021 | MTE6420 | 6420 | Prob Stat Mid Schl Tchr | MTE | Mathematics Teacher Education | 3 | Probability and statistical methods applied to real problems. Scientific method of investigation. Data collection, organization, display, and analysis. Sampling distributions and probability. Introductions to statistical inference. Use of appropriate software and graphing calculator. | GR | LL | Lecture/Lab Combination |
| Spring 2021 | MGT6250 | 6250 | Compensation and Benefits | MGT | Management | 3 | Application of compensation and benefits theory to local small businesses, job analyses, job descriptions, wage and benefit surveys, market pricing, point-factor job evaluations, graded salary structure, and related policies. | GR | LE | Lecture |
| Spring 2021 | DOS9800 | 9800 | Internship in Org Studies | DOS | Doctor Org Studies | 1 | An immersive learning experience that broadens and deepens the students knowledge, skills, and dispositions at the organizational executive level, while meeting doctoral program outcomes. | GR | IN | Internship |
| Spring 2021 | WGS7000 | 7000 | Feminist Theory | WGS | Women, Gender, and Sexuality | 3 | Analysis of works of influential feminist thinkers from 18th to 21st centuries. Examines major questions, debates, and issues considered by feminist theorists. | GR | SE | Seminar |
| Spring 2021 | PHIL5050 | 5050 | 19th Century Philosophy | PHIL | Philosophy | 3 | Study of 19th century European philosophy. Topics include the idealist rejection of materialism by Hegel and Schopenhauer, Kierkegaard and Nietzsche's critique of rationalism on behalf of concrete existence, and Marx's synthesis of idealism's optimism about humanitasability to shape its world and a commitment to action over thought. | GR | LE | Lecture |
| Spring 2021 | CH1020 | 1020 | Beginning Chinese II | CHI | Chinese | 3 | Communicative introduction to Chinese. Study of the vocabulary and structure of the Chinese language; practice in conversation, reading, and writing. | UG | LE | Lecture |
| Spring 2021 | GEO4860 | 4860 | Foundations of Geography | GEO | Geography | 3 | Theories and methods comprising the field of geography. Development of the profession and paradigms and traditions of geographical study and analysis. Integrated Writing course. | UG | LE | Lecture |
| Spring 2021 | ED4800 | 4800 | AYA Prof Seminar | ED | Education | 3 | Seminar accompanying AYA Student Teaching focusing on pedagogical content knowledge and the and completion of and submission of the edTPA. | UG | SE | Seminar |
| Spring 2021 | CS2570R | 2570R | Recitation for MTH 2570 | CS | Computer Science | 1 | Recitation for MTH 2570. | UG | RE | Recitation |
| Spring 2021 | EE7270 | 7270 | Adaptive Control | EE | Electrical Engineering | 3 | The goal of this course is to provide a rigorous introduction to the exciting world of adaptive/self-tuning systems and the application of adaptive techniques to control of dynamic systems with parametric uncertainty. Students will develop first-hand experience in the use of adaptive control techniques via computer simulations. | GR | LE | Lecture |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Division</th>
<th>Name</th>
<th>Designation</th>
<th>Credits</th>
<th>Description</th>
<th>Requirement(s)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME7850</td>
<td>7850</td>
<td>UG</td>
<td>Lean Proc Impr Engr</td>
<td>BME Biomedical Engineering</td>
<td>3</td>
<td>Introduction to the practical application of lean manufacturing and kaizen techniques in multiple environments. Includes case studies and team projects based on real world problems and solutions.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>GR LE</td>
</tr>
<tr>
<td>KNH1660</td>
<td>1660</td>
<td>UG</td>
<td>Swimming: Beginning</td>
<td>KHN Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Swimming: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>TMG2040</td>
<td>2040</td>
<td>UG</td>
<td>Fund of Management</td>
<td>TMG Technical Management</td>
<td>3</td>
<td>Management skills, global management skills, organizational behavior, communication and technology management skills.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>ANT7900</td>
<td>7900</td>
<td>GR</td>
<td>Anatomy Seminar</td>
<td>ANT Anatomy</td>
<td>1</td>
<td>Two seminars (Anatomy Seminar I and II) run concurrent with the Department of Neuroscience, Cell Biology and Physiology Seminar Series.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>MTH4910</td>
<td>4910</td>
<td>UG</td>
<td>HS Math Adv Perspective</td>
<td>MTH Mathematics</td>
<td>3</td>
<td>Mathematics for high school teachers from an advanced perspective: real and complex numbers, functions, equations, integers and polynomials, number system structures. Integrated Writing course.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>HST7400</td>
<td>7400</td>
<td>GR</td>
<td>Special Topics</td>
<td>HST History</td>
<td>3</td>
<td>Examines special topics in the advanced study of history. Topics vary.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>PLS3150</td>
<td>3150</td>
<td>UG</td>
<td>Religion and Politics</td>
<td>PLS Political Science</td>
<td>3</td>
<td>(Also listed as REL 3650) General examination of both the historical and the contemporary relation between religion and politics in the United States, with special reference to church/state separation. Integrated Writing course.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>ED4340</td>
<td>4340</td>
<td>UG</td>
<td>Lang Arts Meths</td>
<td>ED Education</td>
<td>3</td>
<td>A developmental and integrated approach to teaching language arts (reading, writing, speaking &amp; listening, and language) for middle level classroom, grades 4-9. Includes development of appropriate objectives, planning, resources and facilities, evaluation, and trends.</td>
<td>Department Managed Prerequisite(s): Graduate level IHE 6310 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>EC7300</td>
<td>7300</td>
<td>GR</td>
<td>Regional &amp; Urban Econ</td>
<td>EC Economics</td>
<td>3</td>
<td>Analysis of the basic forces that shape the economic, social, and physical environments of urban and nonurban regions. Emphasis on regional income determination and developmental models, location of economic activity, the structure of urban centers, intra-urban economic relationships, and economic policy.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>GER4160</td>
<td>4160</td>
<td>UG</td>
<td>German Lit 18th Cent</td>
<td>GER German</td>
<td>3</td>
<td>Representative works of Goethe and Schiller. Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D or Undergraduate level GER 3120 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3260 Minimum Grade of D or Undergraduate level GER 3310 Minimum Grade of D or Undergraduate level GER 3320 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D or Undergraduate level GER 3610 Minimum Grade of D or better.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>CNL9602</td>
<td>9602</td>
<td>UG</td>
<td>Assess. &amp; Diag. of PTSD</td>
<td>CNL Counseling</td>
<td>3</td>
<td>Overview of trauma theories, assessment, and diagnosis of PTSD in clinical mental health settings. Emphasis on knowledge and skills of trauma assessment, diagnosis, multicultural and diversity issues using lifespan perspective.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>ENG3440</td>
<td>3440</td>
<td>UG</td>
<td>Black Lit &amp; Culture</td>
<td>ENG English</td>
<td>3</td>
<td>Representative works in English from the Black diaspora.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>PJN8990</td>
<td>8990</td>
<td>GR</td>
<td>Physiology Research</td>
<td>P&amp;N Physiology &amp; Neuroscience</td>
<td>1</td>
<td>Supervised thesis research.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>ASM7572</td>
<td>7572</td>
<td>GR</td>
<td>Aerospace Skills II</td>
<td>ASM Aerospace Medicine</td>
<td>2</td>
<td>This is the second in a series of three courses designed to bridge traditional didactic knowledge obtained in the classroom with the post-graduation operational aerospace environment. Areas studied include human factors concepts and their integration and application to aerospace accident investigation. Contemporary accident investigation classification systems and utilization of the Divisions flight simulator will be employed in recreating mishaps to further strengthen learning outcomes.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>PN6300</td>
<td>6300</td>
<td>GR</td>
<td>Med Cell Bio &amp; Phys</td>
<td>PN Physiology &amp; Neuroscience</td>
<td>3</td>
<td>This is an interdisciplinary course that brings together fundamental concepts of biochemistry, molecular biology, cell biology and cell physiology of eukaryotic cells and applies this knowledge to explaining disease mechanisms.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>SPN6030</td>
<td>6030</td>
<td>GR</td>
<td>Adv Studies: Lang Civil</td>
<td>SPN Spanish</td>
<td>3</td>
<td>Topics vary. Conducted in Spanish.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>GR</td>
</tr>
<tr>
<td>CHM4370</td>
<td>4370</td>
<td>UG</td>
<td>Electroanalytical Chem</td>
<td>CHM Chemistry</td>
<td>2</td>
<td>Fundamental principles of electrochemistry and the application of electrochemical methods to chemistry and chemical analysis.</td>
<td>Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Undergraduate level EC 2040 Minimum Grade of D and Undergraduate level EC 2650 Minimum Grade of D or better.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3150L 3150L</td>
<td>Invertebrate Zoology Lab</td>
<td>BIO Biology 0</td>
<td>Required laboratory for BIO 3150.</td>
<td>UG LB Lab</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>SOC3210 3210</td>
<td>Sociology of Deviance</td>
<td>SOC Sociology 3</td>
<td>Extensive exploration of the various sociological approaches to the study of deviance and social disorganization with emphasis on contemporary sociological theory and research.</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>EE2011 2011</td>
<td>Analog Circuit Techniques</td>
<td>EE Electrical Engineering 3</td>
<td>Electrical quantities and their relationships, Impedance models of basic circuit elements, Conservation laws leveraging algebraic solutions, Algebraic models of dynamic systems via transform calculus. Intended for BSECET majors. May not be taken for credit if students have taken EE 2010/L.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>ED4330 4330</td>
<td>Soc Stds Meths for MCE</td>
<td>ED Education 3</td>
<td>Focus on principles, trends, methods, resources, technology, critical thinking skills, historiography, and social science for middle level social studies classroom, grades 4-9. Includes development of appropriate objectives, planning, resources and facilities, evaluation, and trends.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>GEO3100 3100</td>
<td>Economic Geography</td>
<td>GEO Geography 3</td>
<td>Geographic factors that influence human economic activities and explain patterns of production, consumption of goods and services, and location change.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MUE2930 2930</td>
<td>University Men's Chorale</td>
<td>MUE Music: Ensembles 1</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced choral literature from a wide range of historical and compositional styles. Audition required.</td>
<td>UG LL Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>DOS9200 9200</td>
<td>Doc Workshop in Ldrship</td>
<td>DOS Doctor Org Studies 1</td>
<td>Small group learning for doctoral students designed around a specific topic in organizational studies.</td>
<td>GR SE Seminar</td>
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<tr>
<td>Spring 2021</td>
<td>PHL4720 4720</td>
<td>Philosophy of Social Sci</td>
<td>PHL Philosophy 3</td>
<td>Analysis of views concerning concept and theory formation in the social sciences, problems in objectivity and value, justification of Verstehen, mechanism vs. teleological explanations, and reductionism.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>WGS6700 6700</td>
<td>Research Methods</td>
<td>WGS Women, Gender, and Sexuality 3</td>
<td>Examines feminist methodologies and methods of research with emphasis on qualitative inquiry and/or mixed methods.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>ATR3840 3840</td>
<td>Lower Body Assessment</td>
<td>ATR Athletic Training 2</td>
<td>Clinical/practicum emphasizing lower body injury assessment skills.</td>
<td>UG CL Clinical</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>PLS4230 4230</td>
<td>Fin Mgt Pub Orgs</td>
<td>PLS Political Science 3</td>
<td>Local fiscal institutions and analytical tools for designing and evaluating fiscal policies. Reviews financial reporting and accounting, the municipal bond market, pension systems, state and local taxes, user charges, and intergovernmental relations.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>BMS7335 7335</td>
<td>Ergonomic Biodynamics</td>
<td>BMS Biomedical Sciences 3</td>
<td>Covers quantitative assessment of human motions. Mathematical descriptions include anthropometry, kinematics, kinetics and energetics. The methods of kinesiology, biomechanical modeling and electromyography are emphasized.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>EGR5350 5350</td>
<td>Tech Comm for EGR &amp; CS</td>
<td>EGR Engineering 3</td>
<td>A modular approach to oral and written communication of complex technical information to an expert audience. Course includes describing technical mechanisms, processes designing, and using tables, graphs, charts, and figures; producing technical proposals, progress reports, feasibility reports, and formal reports; and doing technical briefings.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>SAA7690 7690</td>
<td>Design Diverse Learn Exp</td>
<td>SAA Student Affairs in Higher Ed 3</td>
<td>Learning to design structured group experiences, from conception through program delivery and evaluation is the class focus. Training skills for exploring controversial issues including gender, role, class, language, spirituality, sexuality, and politics are covered.</td>
<td>GR LL Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>ISE4712L 4712L</td>
<td>Sim &amp; Stoch Models Lab</td>
<td>ISE Industrial &amp; Systems Engr 0</td>
<td>Required laboratory for ISE 4712.</td>
<td>UG LB Lab</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>KNH7800 7800</td>
<td>Research Methods &amp; Prog</td>
<td>KNH Kinesiology &amp; Health 3</td>
<td>Study of successful program assessment and evaluation processes, related research methods, and grant/project development.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>OL4010 4010</td>
<td>Leading Organizations</td>
<td>OL Organizational Leadership 3</td>
<td>Focus on understanding and navigating the structural, philosophical, and human domains of organizations to engage in effective leadership.</td>
<td>UG SE Seminar</td>
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<tr>
<td>Spring 2021</td>
<td>REL2040 2040</td>
<td>Bible, Qur'an &amp; West Cul</td>
<td>REL Religion 3</td>
<td>Introduction to the textual formation, early historical development, and influence of Judaism, Christianity, and Islam. Integrated Writing course.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>SLI4580 4580</td>
<td>RID Certification Prep</td>
<td>SLI Sign Language Interpreting 3</td>
<td>Assists students in preparation for the Registry of Interpreters for the Deaf (RID) national certification test. Ethical discussions, sign and voice performances and analyses, and review of written materials will be included.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ED4360 4360</td>
<td>Science Methods for MCE</td>
<td>ED Education 3</td>
<td>Curriculum and materials for teaching middle level science with emphasis on an integrated constructivist approach for middle level science classroom, grades 4-9. Includes development of appropriate objectives, planning, resources and facilities, evaluation, and trends.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>CNL8600 8600</td>
<td>Adv Seminar Counseling</td>
<td>CNL Counseling 1</td>
<td>Provides an opportunity for students to further develop skills in counseling, appraisal, research, or other related areas under faculty direction.</td>
<td>GR SE Seminar</td>
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<tr>
<td>Quarter</td>
<td>Code</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>prerequisite(s)</td>
<td>Credit</td>
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<tr>
<td>Spring</td>
<td>ED6560</td>
<td>6560</td>
<td>AYA Int Pt II: Std T IS</td>
<td>ED</td>
<td>8</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades 7-12 in Integrated Science.</td>
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<tr>
<td>Spring</td>
<td>ANT5100</td>
<td>5100</td>
<td>Adv Hum Struc &amp; Func I</td>
<td>ANT</td>
<td>4</td>
<td>Detailed study of the structure and function of the human body. The course begins with anatomical terminology and the characteristics, maintenance and basis of life and moves onto the structure of cells with emphasis on function. Body systems are then covered, which include the integumentary system, skeletal system and articulations, nervous system, special senses and muscular system. Laboratory exercises use human donors.</td>
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<tr>
<td>Spring</td>
<td>FAS2010</td>
<td>2010</td>
<td>Agricultural Economics</td>
<td>FAS</td>
<td>3</td>
<td>Fundamentals of economic issues relevant to the agricultural industry. Topics include agricultural production and distribution, markets, international trade, entitlement programs, and commodity contracts/trading.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR7351</td>
<td>7351</td>
<td>Curriculum Development</td>
<td>NUR</td>
<td>3</td>
<td>Analysis of learning theories and models of nursing curriculum design. Development and evaluation of nursing curriculum and educational programs.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring</td>
<td>ENG4910</td>
<td>4910</td>
<td>Directed Reading</td>
<td>ENG</td>
<td>3</td>
<td>Supervised reading in special areas of American, English, or world literature in translation, and English language and linguistics not available through course structure. Limited to senior English majors with a 3.0 cumulative average. Department Managed Prerequisite(s): Undergraduate level ENG 3060 Minimum Grade of C-&lt;b&gt;</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring</td>
<td>SLI3520</td>
<td>3520</td>
<td>Interpreter Ethics &amp; Decision</td>
<td>SLI</td>
<td>3</td>
<td>A course designed to give students a foundation in the language and style of modern Arabic media through the study of newspapers, magazines, TV and radio. Department Managed Prerequisite(s): Undergraduate level ARA 3210 Minimum Grade of D-&lt;b&gt;</td>
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<tr>
<td>Spring</td>
<td>BUS1000</td>
<td>1000</td>
<td>Bus. &amp; Career Opp.</td>
<td>BUS</td>
<td>1</td>
<td>Perspectives on an undergraduate degree in Business. Professional career opportunities, preparation for a business career, academic paths, and resources available to students through both Wright State University and the Raj Soin College of Business.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring</td>
<td>SOC5720</td>
<td>5720</td>
<td>Policing in Society</td>
<td>SOC</td>
<td>3</td>
<td>Discussion of the history and theories of policing while reviewing the role and function of the police.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring</td>
<td>REL6930</td>
<td>6930</td>
<td>Seminar in Religion</td>
<td>REL</td>
<td>3</td>
<td>Intensive study and discussion of a significant topic in religious studies. Students will conduct semester long projects culminating in a seminar paper. Titles vary.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring</td>
<td>ARA4210</td>
<td>4210</td>
<td>Intro to Media Arabic</td>
<td>ARA</td>
<td>3</td>
<td>A course designed to give students a foundation in the language and style of modern Arabic media through the study of newspapers, magazines, TV and radio. Department Managed Prerequisite(s): Undergraduate level ARA 3210 Minimum Grade of D-&lt;b&gt;</td>
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<tr>
<td>Spring</td>
<td>EES4480</td>
<td>4480</td>
<td>Plate Tectonics</td>
<td>EES</td>
<td>3</td>
<td>History and development of the theory of plate tectonics with an emphasis upon the particular needs of the educator.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring</td>
<td>TH2100</td>
<td>2100</td>
<td>Theatre Technology</td>
<td>TH</td>
<td>2</td>
<td>Participation in the operation of a production shop. Fundamentals of theatre technology, emphasizing basic processes and materials. Participation in selected department productions required.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring</td>
<td>ENG7990</td>
<td>7990</td>
<td>Thesis</td>
<td>ENG</td>
<td>3</td>
<td>To be arranged with the Director of Graduate Studies. Students will be allowed a maximum of three hours thesis credit toward the degree.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring</td>
<td>MIS7800</td>
<td>7800</td>
<td>Mgt of Tech Services</td>
<td>MIS</td>
<td>3</td>
<td>Introduction to state-of-the-art service management thinking. Provides an understanding of the unique challenges inherent in profit-­‐delivering service excellence. This course has a fee that is non­-refundable once the term begins.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring</td>
<td>SLI3520</td>
<td>3520</td>
<td>Interpreter Ethics &amp; Decision</td>
<td>SLI</td>
<td>3</td>
<td>Focus on ethical situations that arise in a sign language interpreter's work. Ethical dilemmas will be debated, while exploring the RID Code of Professional Conduct and other ethical standards. Personal decision making process will be considered.</td>
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<tr>
<td>Spring</td>
<td>CNL4630</td>
<td>4630</td>
<td>Mental Hlth &amp; Disability</td>
<td>CNL</td>
<td>3</td>
<td>Factors influencing behavior of individuals and methods a rehabilitation specialist may use in observing, analyzing, and improving attitudes and behavior.</td>
<td></td>
<td>UG</td>
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<tr>
<td>Spring</td>
<td>CEG3410</td>
<td>3410</td>
<td>Intro Digital Forensics</td>
<td>CEG</td>
<td>3</td>
<td>Students build a body of knowledge in digital forensics in both computers and networks by incrementally seeking answers to fundamental questions including i) where to collect digital materials, ii) how to collect them, iii) how to interpret and use them, and iii) how to actively design new mechanisms to facilitate forensics. Students will develop practical skills by using various forensics analysis tools.</td>
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<tr>
<td>Spring 2021</td>
<td>CHM4680</td>
<td>4680</td>
<td>Experimental Nanoscience</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3</td>
<td>Laboratory experiments include fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses and computational modeling of nanoscale physical phenomena.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH2280</td>
<td>2280</td>
<td>Business Calculus</td>
<td>MTH</td>
<td>Mathematics</td>
<td>4</td>
<td>Functions, rates of change, limits, derivatives of algebraic functions, applications including maxima and minima, exponential and logarithmic functions, and indefinite and definite integrals with applications. Credit will not be given for MTH 2280 for students who have already successfully completed MTH 2300.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIS3000</td>
<td>3000</td>
<td>Fundamentals of Info Sys</td>
<td>MIS</td>
<td>Management Information Systems</td>
<td>3</td>
<td>Introduces contemporary information systems and how they add value throughout the global organization. Focuses on key components of information systems: people, software, hardware, data, and network technologies. Students will develop a small business application using database, spreadsheet and web development tools.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3710</td>
<td>3710</td>
<td>Composition I</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>Creative writing that encompasses a variety of media and forms. Includes style exploration and the development of a personal style.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1080A</td>
<td>1080A</td>
<td>Basketball</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Basketball. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX9120</td>
<td>9120</td>
<td>Scientific Writing 1</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>3</td>
<td>Students are required to independently write a 10-15 page scientific reviews on a current topic in Pharmacology &amp; Toxicology with input from the adviser.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3310</td>
<td>3310</td>
<td>Human Evolution</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>Review of the fossil and archaeological records and the genetic evidence for human evolution, and examination of evolutionary principles and current issues addressed by paleoanthropology.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1200R</td>
<td>1200R</td>
<td>Intro Discrete Struct Rec</td>
<td>CS</td>
<td>Computer Science</td>
<td>0</td>
<td>Required recitation for CS 1200.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS3320</td>
<td>3320</td>
<td>Teaching Strategies</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Interpreting information for identification/placement of individuals with exceptional learning needs within the middle school curriculum. Organizing strategies/interventions based on student assessment. Field experiences required.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW7620</td>
<td>7620</td>
<td>SW Field Ed II</td>
<td>SW</td>
<td>Social Work</td>
<td>1</td>
<td>Completion of 300 hours of field education experience in the community. Provides the opportunity for students to engage in selected and organized activities, with or on behalf of clients, that apply the social work skills, knowledge, and values learned in the classroom.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN5250</td>
<td>5250</td>
<td>Business Spanish I</td>
<td>SPN</td>
<td>Spanish</td>
<td>3</td>
<td>An introduction to the language of business Spanish with insight into Spain and Latin America within the global economy.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUA4220</td>
<td>4220</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>2</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6470L</td>
<td>6470L</td>
<td>Antenna Thry Design Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Required laboratory for EE 6470.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7330</td>
<td>7330</td>
<td>Seminar Middle East Hist</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines aspects of the history of the Middle East from the 7th century to the present. Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6400</td>
<td>6400</td>
<td>Nanosci. and Nanotech.</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Introduction to nanoeengineering, nanoscience and nanotechnology. Topics include introduction to quantum mechanics, fabrication, characterization, materials, electronic properties, optical properties, magnetic properties, devices, MEMS, NEMS.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6220</td>
<td>6220</td>
<td>Mech Sys Model &amp; Design</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Modeling of complex mechanical systems as a set of simple, linear or nonlinear components for the purpose of design. Introduces modern computational tools.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT7960</td>
<td>7960</td>
<td>Topics in Stat and Prob</td>
<td>STT</td>
<td>Statistics</td>
<td>1</td>
<td>Topics in statistics and probability.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>COM4810</td>
<td>4810</td>
<td>Independent Study</td>
<td>COM</td>
<td>Communication</td>
<td>1</td>
<td>Faculty-directed readings and research.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7540L</td>
<td>7540L</td>
<td>VLSI Testing Design Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Required laboratory for EE 7540: (Undergraduate level EE 4540 Minimum Grade of D and Undergraduate level EE 4540L Minimum Grade of D) or (Graduate level EE 6540 Minimum Grade of D and Graduate level EE 6540L Minimum Grade of D):</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE4950</td>
<td>4950</td>
<td>Undergrad Resrch ISE II</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>1</td>
<td>Undergraduate research in advanced Industrial and Systems Engineering. Topics vary.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT3866</td>
<td>3866</td>
<td>Actuarial Prob Exam Prep</td>
<td>STT</td>
<td>Statistics</td>
<td>1</td>
<td>Seminar course that assists students who wish to prepare to sit for the Society of Actuaries (SOA) Exam P. It is expected that students enrolling in this course will already have taken courses in probability and statistics that have covered all or most of the topics in this ACTEX Manual and/or the Part P syllabus posted on the SOA website. Virtually all class time will be spent discussing solution techniques for sample problems of the type expected to be encountered on Exam P.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7910</td>
<td>7910</td>
<td>History Internship</td>
<td>HST</td>
<td>History</td>
<td>1</td>
<td>Applies skills learned in coursework to work and/or study outside the academy, in ways that benefit a student's educational experience. Approved and supervised by the Director of Graduate Studies, and ranges from 100 to 300 hours of work. May be repeated for a total of 3 credit hours.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>ART4090</td>
<td>4090</td>
<td>Studies in Art</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Problems and approaches to art. Includes cross-media and interdisciplinary studies.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME3350</td>
<td>3350</td>
<td>Fluid Dynamics</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Study of fluid properties, fluid statics, incompressible flows, and real fluid flows.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level ME 2210 Minimum Grade of D and Undergraduate level ME 3310 Minimum Grade of C&lt;sup&gt;&gt;&lt;/sup&gt;:&gt;&lt;/b&gt;</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4211</td>
<td>4211</td>
<td>Urine/Body Fluid Lab</td>
<td>MLB</td>
<td>Medical Laboratory Science</td>
<td>0.5</td>
<td>Study of body fluids, including the pathophysiology of their formation and the biochemical and morphological methods used to obtain diagnostic information. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NEU4020</td>
<td>4020</td>
<td>Sr Cap Neuro Lab Res</td>
<td>NEU</td>
<td>Neuroscience</td>
<td>2</td>
<td>Senior neuroscience majors will write a scientific research article encompassing the neuroscience research they have done and deliver an oral presentation summarizing their research project in the NCBP Departmental Honors Forum. Senior standing, in the Departmental Honors Program, and a minimum of 5 credits of NEU 4990. Integrated Writing course.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>PLS6200</td>
<td>6200</td>
<td>Politics &amp; the Novel</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>(Also listed as ENG 6600.) Study and critique of political themes in works of selected 20th century authors, including social roles, activism, political awareness, power, government, and conflict at the individual, institutional, and international level.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT7820</td>
<td>7820</td>
<td>Developing Multimedia</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
<td>Students use elements of instructional design and storyboarding techniques to translate instruction into various types of multimedia presentations.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC3010</td>
<td>3010</td>
<td>Econ of Global Money Mar</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Analysis of behavior and significance of money, credit, debt, and the banking system.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HUM7500</td>
<td>7500</td>
<td>Humanities Capstone</td>
<td>HUM</td>
<td>Humanities</td>
<td>1</td>
<td>Students enrolled in the Humanities Capstone course will write a 30-page research paper under the direction of a relevant graduate faculty member. Students should be near completion of their other MIRUM coursework and must get advisor approval to enroll.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE6310</td>
<td>6310</td>
<td>Ergonomics</td>
<td>IHE</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>Introduction to the application of ergonomic principles to the industrial environment. Includes ergonomic planning and implementation, the work environment, NIOSH work factors, work measurement and work-station and equipment design.&lt;b&gt; Department Managed Prerequisite(s): Graduate level IHE 6120 Minimum Grade of D or Undergraduate level ISE 2211 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6870</td>
<td>6870</td>
<td>Special Topics in Hst</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines special topics in the advanced study of history. Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB6700</td>
<td>6700</td>
<td>Rehab Workshop</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>1</td>
<td>Workshop courses to meet the needs of rehabilitation professionals as well as providing courses on as needed basis to meet special interest needs. Titles vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX7012</td>
<td>7012</td>
<td>Introduction to Research</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>1</td>
<td>Three practical laboratory experiences in three week rotations each. The students will spend 3 weeks in 3 laboratories and each rotation will be concluded with a 2 page summary, signed by the laboratory PI. Upon completion the Pharm &amp; Tox student should have a laboratory picked to complete thesis work.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>CS6240</td>
<td>6240</td>
<td>Coding Theory</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>An introduction to the essentials of error-correcting codes, including methods for efficient and accurate transfer of information. Perfect and related codes, linear and cyclic codes, BCH codes, Reed-Muller codes, Reed-Solomon codes, Self-dual codes, weight enumerators and bounds.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D&lt;/b&gt;</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1290A</td>
<td>1290A</td>
<td>H2O Zumba</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of H2O Zumba. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3810</td>
<td>3810</td>
<td>Antioch Writers Workshop</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Participation in the one-week summer Antioch Writers' Workshop and preparation of a portfolio of polished creative writing.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2810</td>
<td>2810</td>
<td>Intro Precision Ag</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
<td>3</td>
<td>Introduction to precision agriculture. Topics include rate controllers, monitors, weather modeling software, GPS, WAAS, RTK, variable rate fertilizer, variable rate planting, variable rate nitrogen, SST software, and development of variable rate product recommendations.</td>
<td>UG</td>
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<tr>
<td>Semester</td>
<td>Code</td>
<td>CRN</td>
<td>Title</td>
<td>Hours</td>
<td>Credits</td>
<td>Type</td>
<td>Location</td>
<td>Notes</td>
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<tr>
<td>Spring 21</td>
<td>LAT4530</td>
<td>4530</td>
<td>Roman History and Bio</td>
<td>LAT</td>
<td>Latin</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CRT2030</td>
<td>2030</td>
<td>Probation and Parole</td>
<td>CRT</td>
<td>Corrections</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MIS3810</td>
<td>3810</td>
<td>Intro to Business Data</td>
<td>MIS</td>
<td>Management Information Systems</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MTH2320</td>
<td>2320</td>
<td>Calculus III</td>
<td>MTH</td>
<td>Mathematics</td>
<td>4</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUS3310L</td>
<td>3310L</td>
<td>Adv Orch Cond Lab</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 21</td>
<td>CS6700</td>
<td>6700</td>
<td>Database Management Systems</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EE7840</td>
<td>7840</td>
<td>Computer Vision</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SOM708</td>
<td>708</td>
<td>Year 2 Medical Study</td>
<td>SOM</td>
<td>School of Medicine</td>
<td>24</td>
<td>MD</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ME8350</td>
<td>8350</td>
<td>Mechanics Viscous Fluids</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EE7840</td>
<td>7840</td>
<td>Computer Vision</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PHL3550</td>
<td>3550</td>
<td>Theories Human Nature</td>
<td>PHL</td>
<td>Philosophy</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED6580</td>
<td>6580</td>
<td>Std Tchg; MA/Vin Arts</td>
<td>ED</td>
<td>Education</td>
<td>8</td>
<td>GR</td>
<td>IN</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ITT410</td>
<td>410</td>
<td>Virtual Rhy Instr Dgn</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>RHB3640</td>
<td>3640</td>
<td>Community Accessibility</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>3</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUE6920</td>
<td>6920</td>
<td>Vocal Jazz Ensemble</td>
<td>MUE</td>
<td>Music: Ensembles</td>
<td>1</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 21</td>
<td>STT6860</td>
<td>6860</td>
<td>Ind Read Stat and Prob</td>
<td>STT</td>
<td>Statistics</td>
<td>1</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MKT7100</td>
<td>7100</td>
<td>Digital Marketing</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>NEU3100</td>
<td>3100</td>
<td>How Nervous Sys Works I</td>
<td>NEU</td>
<td>Neuroscience</td>
<td>4</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 21</td>
<td>DMV9999</td>
<td>9999</td>
<td>For Administrative Use Only</td>
<td>DMV</td>
<td>DMV Consortium</td>
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<td>MD</td>
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<tr>
<td>Spring 21</td>
<td>KNH8990</td>
<td>8990</td>
<td>Phys Ed Research</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Name</td>
<td>Department</td>
<td>Credits</td>
<td>Course Description</td>
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<tr>
<td>Spring 2021</td>
<td>ART2310</td>
<td>Painting for Non-Majors</td>
<td>ART</td>
<td>3</td>
<td>Introduction to the materials, techniques, concepts and practice of painting. Using acrylic paint, students will explore the fundamentals of observational painting with an emphasis on drawing, tonality, color mixing and composition.</td>
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<tr>
<td>Spring 2021</td>
<td>MTH6150</td>
<td>Scientific Computation</td>
<td>MTH</td>
<td>3</td>
<td>Modern computational techniques for simulating scientific phenomena. Department Managed Prerequisite(s): Undergraduate level MTH 3140 Minimum Grade of D or Undergraduate level MTH 4160 Minimum Grade of D and Undergraduate level MTH 3060 Minimum Grade of D.</td>
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<tr>
<td>Spring 2021</td>
<td>ATR3610</td>
<td>Assess Athletic Injury I</td>
<td>ATR</td>
<td>2</td>
<td>Assessment and skills for lower body athletic injuries/conditions of the physically active.</td>
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<tr>
<td>Spring 2021</td>
<td>ARA3110</td>
<td>Arabic Conversation I</td>
<td>ARA</td>
<td>3</td>
<td>A language practicum for intermediate students of Arabic, designed to expand conversational skills in Modern Standard Arabic. Department Managed Prerequisite(s): Undergraduate level ARA 2020 Minimum Grade of D.</td>
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<tr>
<td>Spring 2021</td>
<td>NUR7732</td>
<td>Adv Neonatal Assessment</td>
<td>NUR</td>
<td>4</td>
<td>Course allows an immersive experience in the identification of normal and abnormal findings in the neonate. Content includes a comprehensive view of fetal assessment, maternal wellbeing, and family dynamics. Opportunity will be offered to evaluate perinatal histories, perform developmental and physical exams, evaluate diagnostic and laboratory findings, and identify areas for referral. Students will learn to write comprehensive history and physicals using standard nomenclature.</td>
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<tr>
<td>Spring 2021</td>
<td>ED4570</td>
<td>Multi-Age TESOL Methods</td>
<td>ED</td>
<td>3</td>
<td>Curricular and instructional elements for PK-12 English language teachers, including: theoretical knowledge, goal setting, needs assessment, syllabus writing, lesson planning, instructional techniques, differentiated instruction, activity creation, inclusive/authentic assessment.</td>
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<tr>
<td>Spring 2021</td>
<td>PHL5100</td>
<td>American Philosophy</td>
<td>PHL</td>
<td>3</td>
<td>A look at the American Pragmatist tradition from Peirce, James and Dewey to more recent American philosophers such as Quine, Davidson, Putnam and Rorty.</td>
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<tr>
<td>Spring 2021</td>
<td>MUS6020</td>
<td>Intro Res In Music Ed</td>
<td>MUS</td>
<td>3</td>
<td>A comprehensive introduction to research in Music Education and its value and contribution to the development of historical data, pedagogy, ethnographic research and understanding of contemporary issues in music instruction and performance.</td>
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<tr>
<td>Spring 2021</td>
<td>MUS2260</td>
<td>Band Methods- Voice/Str.</td>
<td>MUS</td>
<td>1</td>
<td>The course is designed to give vocal and string music education majors a foundation in wind and percussion pedagogy, band teaching techniques, methodology, and resources.</td>
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<tr>
<td>Spring 2021</td>
<td>TH3360</td>
<td>Pattern Draft &amp; Draping</td>
<td>TH</td>
<td>3</td>
<td>Basic principles of pattern drafting, flat patterning, and draping of the female bodice.</td>
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<tr>
<td>Spring 2021</td>
<td>BMS7630</td>
<td>NMR Spectro &amp; Imaging</td>
<td>BMS</td>
<td>3</td>
<td>Also listed as BMS 7630 and BME 7134. Discusses the applications of NMR spectroscopy to the study of tissue metabolism in vivo. The fundamental theory of magnetic resonance imaging, with a survey of clinical applications, is also presented.</td>
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<tr>
<td>Spring 2021</td>
<td>ENG3220</td>
<td>British Texts: to1870</td>
<td>ENG</td>
<td>3</td>
<td>Representative works of major British writers of the later 17th to later 19th centuries.</td>
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<tr>
<td>Spring 2021</td>
<td>EE3310</td>
<td>Devices and Circuits</td>
<td>EE</td>
<td>3</td>
<td>Introduction to basic solid-state electronic devices for discrete and integrated circuits. Major topics include carrier flow in semi-conductors, p-n junction theory, semiconductor diodes, bipolar junction transistors, field effect transistors, biasing, introduction to amplifiers, and frequency response. Department Managed Prerequisite(s): (Undergraduate level EE 2010 Minimum Grade of C and Undergraduate level EE 2010L Minimum Grade of C and Undergraduate level MTH 2300 Minimum Grade of D) or (Undergraduate level EE 2011 Minimum Grade of C and Undergraduate level EE 2011L Minimum Grade of C and Undergraduate level MTH 2240 Minimum Grade of D).</td>
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<tr>
<td>Spring 2021</td>
<td>PSY6220</td>
<td>Psycholinguistic Cap</td>
<td>PSV</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on language: its development during the first years of life, its biological basis, its normal and abnormal characteristics.</td>
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<tr>
<td>Spring 2021</td>
<td>REL3300</td>
<td>Topics in Islam</td>
<td>REL</td>
<td>3</td>
<td>Problems, approaches, and topics in the field of Islam. Topics vary.</td>
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<tr>
<td>Spring 2021</td>
<td>NUR7612</td>
<td>Psych MH NP Prac II</td>
<td>NUR</td>
<td>8</td>
<td>The focus is on comprehension and clinical reasoning in the selection and use of a variety of therapeutic modalities used in the management of individuals and families with acute and/or chronic alterations in psychiatric/mental health status and functioning across the lifespan. Pharmacologic and non-pharmacologic treatment modalities are explored. Advanced practice role development is incorporated.</td>
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<tr>
<td>Spring 2021</td>
<td>DOS9040</td>
<td>Org. in Global Environ.</td>
<td>DOS</td>
<td>3</td>
<td>Concepts, models and international linkages for understanding organizational performance in a global world are provided. Emphasis is placed on issues facing 21st century leaders and on preparation for effective management in an interconnected world.</td>
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<td>Course Code</td>
<td>CRN</td>
<td>Subject/Department</td>
<td>Course Title</td>
<td>Units</td>
<td>Description</td>
<td>Prerequisites</td>
<td>Type</td>
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<tr>
<td>URS4300</td>
<td>4300</td>
<td>Nonprofit</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Examines the organizational and managerial foundations of nonprofit organizations. Explores areas such as the nature and mission of nonprofit organizations, evaluating performance, resource development/fund raising, and managing volunteers.</td>
<td>UG LE Lecture</td>
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<tr>
<td>SOC3510</td>
<td>3510</td>
<td>Individual and Society</td>
<td>Sociology</td>
<td>3</td>
<td>Focused upon the intersection of individual and collective realities, this course explores theoretical arguments and extant empirical research concerning how society emerges from the interactions of individuals and how individual consciousness emerges from society.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>PSY7010</td>
<td>7010</td>
<td>Dgn &amp; Quant</td>
<td>Psychology</td>
<td>4</td>
<td>The foundation of experimental design and quantitative techniques will be developed. Students are expected to understand assumptions underlying each technique or procedure. They must also understand their applications to experimental and field research and to experimental and quasi-experimental designs. Both complex analyses of variance, multiple regression and non-parametric techniques will be covered. Computation and computer skills must be mastered.</td>
<td>GR LL Lecture/Lab Combination</td>
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<tr>
<td>LAT3530</td>
<td>3530</td>
<td>Readings in Roman Epic</td>
<td>Latin</td>
<td>3</td>
<td>Virgil's Aeneid, Ovid's Metamorphoses; Lucretius, Statius, Valerius Flaccus, and Silius. Topics include intent and structure of the Aeneid, history and development of Roman epic, structure and transitional devices in the Metamorphoses, and the nature of rhetorical epic.</td>
<td>UG LE Lecture</td>
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<tr>
<td>EE7410</td>
<td>7410</td>
<td>Power Electronics I</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Silicon and silicon carbide power devices; Fast-recovery, ultra-fast-recovery, and p-n junctions and Schottky power diodes; performance parameters; Power MOSFETs and IGBTs; static and dynamic characteristics; voltage and current stress; Pulse-width modulated (PWM) DC-DC power converters: topologies of power stages of power converters, such buck-boost, flyback, forward, half bridge, full-bridge, and push-pull power stages.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>PSY4030</td>
<td>4030</td>
<td>Practicum in Applied Psy</td>
<td>Psychology</td>
<td>3</td>
<td>Supervised work in an applied psychological setting consistent with students' individual interests (e.g., mental health agency, industrial, or organizational setting). Graded pass/unsatisfactory.</td>
<td>UG PR Practicum</td>
<td></td>
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<tr>
<td>TH4450</td>
<td>4450</td>
<td>Acting IV</td>
<td>Theatre</td>
<td>3</td>
<td>Student actors are trained in approaches to a range of twentieth and twenty-first century texts; doing scenes and/or monologues from such playwrights as Albee, Shepard, Manet, Ruhl, Rebeck, LaBute, etc. Emphasis on contemporary acting texts and styles.</td>
<td>UG LL Lecture/Lab Combination</td>
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<tr>
<td>SLI4520</td>
<td>4520</td>
<td>Ed Interp: Sign to Eng.</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Enhancing sign to English skills for interpreters working in K-12 educational settings with deaf students. Emphasizes requisite skills for the Educational Interpreter Performance Assessment (EIPA).</td>
<td>UG LE Lecture</td>
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<tr>
<td>KNH2010</td>
<td>2010</td>
<td>Army Fitness Training IV</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Army Fitness Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG LB Lab</td>
<td></td>
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</tr>
<tr>
<td>STT4160</td>
<td>4160</td>
<td>Short Term Actuarial Math I</td>
<td>Statistics</td>
<td>3</td>
<td>Introduction to a variety of frequency, severity, and aggregate models that are useful for short-term actuarial applications. The course will teach the steps involved in the statistical modeling process and how to apply these steps in an actuarial context. Tools will be introduced for the calibration and evaluation of the models. Topics covered include Severity, Frequency and Aggregate models, Coverage Modifications, Risk Measures and Parametric models. This course covers the SOA syllabus for exam STAM when combined with STT 4170.</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE3450L</td>
<td>3450L</td>
<td>Electromagnetic s Lab</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Hands-on experience with electromagnetic devices, field measurements, and device characterization in a laboratory environment.</td>
<td>UG LE Lab</td>
<td></td>
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</tr>
<tr>
<td>ART2430</td>
<td>2430</td>
<td>Non-Western Art</td>
<td>Art</td>
<td>3</td>
<td>Geographical and chronological survey of the art of non-western cultures. Develops and deepens skills of looking and visual thinking. Credit will not be given for ART 2430 to students who have already successfully completed CST 2430. Integrated Writing course.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>LDR8700</td>
<td>8700</td>
<td>Workshop in Leadership</td>
<td>Leadership</td>
<td>1</td>
<td>Small group learning for graduate students interested in exploring a topic in leadership.</td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>FR4210</td>
<td>4210</td>
<td>Literature of Middle Age</td>
<td>French</td>
<td>3</td>
<td>Selected medieval texts: epic poems, romances, and plays. Taught in French.</td>
<td>UG LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>EDL7910</td>
<td>7910</td>
<td>Curr Design &amp; Evaluation</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Provides curriculum and supervision students with knowledge and skills necessary to perform curriculum and instruction design and evaluation functions.</td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>ENGI030</td>
<td>1030</td>
<td>Advanced Writing: ESL</td>
<td>English</td>
<td>3</td>
<td>Advanced course in written communication with an emphasis on grammatical structures, sentence structure and essay organization, and topic development. For non-native speakers of English only. Placement by writing diagnostic.</td>
<td>UG LE Lecture</td>
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<tr>
<td>Course Code</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Units</td>
<td>Description</td>
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<tr>
<td>LE1010</td>
<td></td>
<td>Criminal Law for Law Enf</td>
<td>LE</td>
<td>1010</td>
<td>Administrative structure, procedures, and policies of various law enforcement organizations. Review personnel regulations and professional development.</td>
<td></td>
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<tr>
<td>HST7850</td>
<td>7850</td>
<td>Archival Preservation</td>
<td>HST</td>
<td>3</td>
<td>An introduction to the basics of archival preservation. Topics include components of a preservation program, factors affecting preservation, archival environments, handling and use of materials, appropriate housing and storage, reformatting options, exhibit and display considerations, disaster preparedness, and security guidelines.</td>
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<tr>
<td>CS5160</td>
<td>5160</td>
<td>Computer Science Fundamentals</td>
<td>CS</td>
<td>6</td>
<td>Hands-on survey of the fundamental concepts of computer science including: fundamentals of programming, algorithm design, analysis, and selection, computational complexity, and data structures. This class is a project-intensive boot camp for graduate students who need preparation in computer science fundamentals at the graduate level.</td>
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<tr>
<td>TMG2100</td>
<td>2100</td>
<td>Personnel Management</td>
<td>TMG</td>
<td>3</td>
<td>Characteristics, purposes, objectives, and techniques of supervision and coordination of the work of others. Employment interviewing, training procedures, supervision, and improvement of human relations.</td>
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<tr>
<td>NUR4440</td>
<td>4440</td>
<td>Public Health Nursing</td>
<td>NUR</td>
<td>1</td>
<td>Integrates nursing and public health concepts/trends to assess community health needs. Stresses primary, secondary, and tertiary prevention for health of individuals, families, and groups, including lifestyle and genetic factors affecting population health. Examines global aspects of the social, political, legal-ethical and environmental issues influencing health care and health policy.</td>
<td></td>
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<tr>
<td>NUR7003</td>
<td>7003</td>
<td>Hlth Policy &amp; Politics</td>
<td>NUR</td>
<td>3</td>
<td>Critical analysis of public policies and issues affecting nursing and health care delivery. Encompasses economic, political, social, technological, ethical and legal influences on consumers and health care providers from a global perspective.</td>
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</tr>
<tr>
<td>ABS7603</td>
<td>7603</td>
<td>Sem CJ Issues &amp; Policy</td>
<td>ABS</td>
<td>1</td>
<td>In-depth coverage of special topics in applied behavioral science/criminal justice with an emphasis on specific criminal justice issues and policies. Topics vary. 1-2 credit hours.</td>
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<tr>
<td>PHL3150</td>
<td>3150</td>
<td>Philosophy of Language</td>
<td>PHL</td>
<td>3</td>
<td>Major issues such as sense and reference, theories of meaning and truth, language games, syntax, language and thought. Integrated Writing course.</td>
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<tr>
<td>PSY2410</td>
<td>2410</td>
<td>Childhood &amp; Adolescence</td>
<td>PSY</td>
<td>3</td>
<td>Child and adolescent development, based on theories and research in developmental psychology. Emotional, cognitive, and social development, as well as the development of the self, identity, and relationships.</td>
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</tr>
<tr>
<td>CEG3310</td>
<td>3310</td>
<td>Computer Organization</td>
<td>CEG</td>
<td>4</td>
<td>Organization and sequential operation of digital computers. Binary and hexadecimal number systems, 2's complement arithmetic, program control, memory organization and hierarchy, addressing modes, stacks and parameter passing, interrupts and traps, I/O devices, DMA, cache, and virtual memory. Department Managed Prerequisite(s): Undergraduate level CS 1181 Minimum Grade of C or (Undergraduate level CEG 2170 Minimum Grade of C and Undergraduate level CEG 3320 Minimum Grade of D or Undergraduate level EE 2000 Minimum Grade of D))</td>
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<tr>
<td>CTE6150</td>
<td>6150</td>
<td>CTE Practicum - Grad</td>
<td>CTE</td>
<td>3</td>
<td>Teaching experience integrated with academic instruction; application of learned concepts to practical situations within the candidates/teaching field. Coordinated by a university faculty member who observes the candidate in a school setting.</td>
<td></td>
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</tr>
<tr>
<td>EE8000L</td>
<td>8000L</td>
<td>Select Topics in EE Lab</td>
<td>EE</td>
<td>1</td>
<td>Laboratory for EE 8000.</td>
<td></td>
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</tr>
<tr>
<td>PLS4910</td>
<td>4910</td>
<td>Independent Research</td>
<td>PLS</td>
<td>1</td>
<td>Supervised individual research on selected topics. Minimum 3.0 grade point average. Integrated Writing course.</td>
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</tr>
<tr>
<td>ME5350</td>
<td>5350</td>
<td>Fluid Dynamics</td>
<td>ME</td>
<td>3</td>
<td>Study of fluid properties, fluid statics, incompressible flows, real fluid flows, and flow measurement. Department Managed Prerequisite(s): Undergraduate level ME 3310 Minimum Grade of C or Graduate level ME 5310 Minimum Grade of C or Undergraduate level EE 2000 Minimum Grade of D</td>
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<tr>
<td>HST4870</td>
<td>4870</td>
<td>Special Topics in Hist</td>
<td>HST</td>
<td>3</td>
<td>Examines special topics in the advanced study of history. Integrated Writing course.</td>
<td></td>
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</tr>
<tr>
<td>KNH3840</td>
<td>3840</td>
<td>Practicum-Hlth, PE &amp; Rec</td>
<td>KNH</td>
<td>1</td>
<td>Supervised field work for junior students seeking certification or a concentration in a specific area. Topics vary. Contact hours vary according to subject. May be taken for letter grade or pass/unsatisfactory.</td>
<td></td>
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</tr>
<tr>
<td>MUS7040</td>
<td>7040</td>
<td>Found &amp; Prin of Mus Ed</td>
<td>MUS</td>
<td>3</td>
<td>Historical, philosophical, and psychological foundations of music education. Principles applied to theoretical and practical problems of music education.</td>
<td></td>
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</tr>
<tr>
<td>MUS1210</td>
<td>1210</td>
<td>Music Listening</td>
<td>MUS</td>
<td>3</td>
<td>Listening skills and aural analysis through musical examples from a variety of periods and cultures. Principal styles, genres, and composers of Western music from the Middle Ages to the present.</td>
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</tbody>
</table>

Spring 2021
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN2120</td>
<td>2120</td>
<td></td>
<td>IntSpnII: LawEnfcmntSoc Wk</td>
<td>Continued study of intermediate Spanish with emphasis on law enforcement and social work contexts. Taught in Spanish.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>IT2300</td>
<td>2300</td>
<td></td>
<td>E-Commerce Advertising</td>
<td>Techniques and strategies used in e-commerce advertising applied to graphic design.</td>
<td>UG LL Lecture/Lab Combination</td>
</tr>
<tr>
<td>PSY8130</td>
<td>8130</td>
<td></td>
<td>Fund. Motion Perception</td>
<td>A detailed introduction to visual motion perception, covering historical, psychophysical, neural, computational, and applied perspectives.</td>
<td>GR SE Seminar</td>
</tr>
<tr>
<td>PHL5060</td>
<td>5060</td>
<td></td>
<td>Analytic Philosophy</td>
<td>A survey of the analytic tradition including philosophers such as Frege, Russell, Wittgenstein, Carnap, Quine, Davidson, Kripke, Putnam, Nagel and others.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>GER4340</td>
<td>4340</td>
<td></td>
<td>Thomas Mann</td>
<td>Studies of the writings of Thomas Mann.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>REL6500</td>
<td>6500</td>
<td></td>
<td>Seminar on Am Religion</td>
<td>Seminar examining selected topics related to the history and practice of religion in America.</td>
<td>GR SE Seminar</td>
</tr>
<tr>
<td>ES7030</td>
<td>7030</td>
<td></td>
<td>Env Resource Sustain</td>
<td>This course will help students construct a framework for developing sustainable solutions to environmental problems.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>DAN2070</td>
<td>2070</td>
<td></td>
<td>Beginning Tap Dance I</td>
<td>Group class introduces students to fundamentals of tap dance technique.</td>
<td>UG ST Studio</td>
</tr>
<tr>
<td>HPR3100</td>
<td>3100</td>
<td></td>
<td>Practicum I: HPR</td>
<td>Candidates, mentored by a classroom teacher, participate in the educational process, assist with classroom duties, and participate in the classroom while examining the dynamics of the classroom.</td>
<td>GR PR Practicum</td>
</tr>
<tr>
<td>EES4470</td>
<td>4470</td>
<td></td>
<td>Astronomy for K-12 Tchrs</td>
<td>Introduction to astronomy and the space sciences from the viewpoint of the amateur astronomer.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>SOC4650</td>
<td>4650</td>
<td></td>
<td>Gbl Sxty &amp; Hum Rights</td>
<td>Survey of current issues in sexuality and social justice from a global perspective, with emphasis on developing students' capacity to assess and address sexual social justice concerns through human rights regimes. Consideration of practices, conditions, and identities such as sexual tourism and work, polygamy and polyamory, same-sex loving and transgender persons, surrogacy, body modifications, and HIV/AIDS. Integrated Writing course.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>EE4910</td>
<td>4910</td>
<td></td>
<td>Elec Ege Senior Des I</td>
<td>A project-oriented design course integrating design methodology with the principles of major electrical engineering disciplines. Students working groups, define design projects and select faculty advisors according to their interests, needs and knowledge bases. Integrated Writing course.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>CEG4410</td>
<td>4410</td>
<td></td>
<td>Mobile Computing</td>
<td>Study networking protocol and system design in mobile computing. Focus on concepts, architecture, design, and performance evaluation of mobile computing principles, protocols and applications, including wireless TCP, Mobile IP, 802.11, agent techniques, etc.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>FIN4800</td>
<td>4800</td>
<td></td>
<td>Special Topics in Fin</td>
<td>Seminar in a finance topic of current and timely interest. Topics vary.</td>
<td>UG SE Seminar</td>
</tr>
<tr>
<td>PHL3000</td>
<td>3000</td>
<td></td>
<td>Critical Thinking</td>
<td>Introduction to fundamental reasoning skills as understood philosophically and as applied in a variety of areas, including science, religion, politics, and morality. Topics include the structure of deductive and inductive reasoning, valid and invalid arguments, truth tables, syllogisms, formal and inductive fallacies.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>CEG4330</td>
<td>4330</td>
<td></td>
<td>Microproc Embedded Sys</td>
<td>Introduction to small, special-purpose microprocessor systems. Topics include hardware design issues, software design and implementation, and real-time operating systems.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>CS3170</td>
<td>3170</td>
<td></td>
<td>Mobile App Development</td>
<td>Focuses on projects to progressively demonstrate concepts and practical approaches to developing software for mobile devices focusing on iOS devices including any of iPhone, iPod Touch, or iPad. The course covers application design, Apple's core technologies, animation, image processing, video processing, audio, 3D graphics, and built in sensors.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASL2020</td>
<td>2020</td>
<td>Intermediate ASL II</td>
<td>ASL</td>
<td>American Sign Language</td>
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<tr>
<td>Spring 2021</td>
<td>PSY6200</td>
<td>6200</td>
<td>Cognitive Psych Cap</td>
<td>PSY</td>
<td>Psychology</td>
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<tr>
<td>Spring 2021</td>
<td>DMV7010</td>
<td>7010</td>
<td>DMV Registration</td>
<td>DMV</td>
<td>DMV Consortium</td>
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<tr>
<td>Spring 2021</td>
<td>CNI9500</td>
<td>9500</td>
<td>Adv Pers Theory &amp; Psy</td>
<td>CNI</td>
<td>Counseling</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5750</td>
<td>5750</td>
<td>New Testament Intro</td>
<td>REL</td>
<td>Religion</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS4510</td>
<td>4510</td>
<td>Foundations Special Education</td>
<td>EDS</td>
<td>Education - Special Education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT4600</td>
<td>4600</td>
<td>Advanced Retailing</td>
<td>MKT</td>
<td>Marketing</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2540</td>
<td>2540</td>
<td>Psych of Disabilities</td>
<td>PSY</td>
<td>Psychology</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9550</td>
<td>9550</td>
<td>Play Therapy</td>
<td>PSI</td>
<td>Professional Psychology</td>
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<tr>
<td>Spring 2021</td>
<td>GR4550</td>
<td>4550</td>
<td>Readings Greek Politics</td>
<td>GR</td>
<td>Greek</td>
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<tr>
<td>Spring 2021</td>
<td>ME7330</td>
<td>7330</td>
<td>Convective Heat &amp; Mass</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4520</td>
<td>4520</td>
<td>Hydropower</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2790</td>
<td>2790</td>
<td>Ag Business Topics</td>
<td>FAS</td>
<td>Food and Agricultural Systems</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR4800</td>
<td>4800</td>
<td>Transition Role Prof Nur</td>
<td>NUR</td>
<td>Nursing</td>
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<td>Spring 2021</td>
<td>CTE4450</td>
<td>4450</td>
<td>Essentials of CTE</td>
<td>CTE</td>
<td>Career and Technical Education</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7880</td>
<td>7880</td>
<td>Artifact Preservation</td>
<td>HST</td>
<td>History</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX7400</td>
<td>7400</td>
<td>Laboratory Management</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4460</td>
<td>4460</td>
<td>Sequence Stratigraphy</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4120</td>
<td>4120</td>
<td>Industrial Controls</td>
<td>EE</td>
<td>Electrical Engineering</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Type</td>
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<tr>
<td>MGT4990</td>
<td>Strategy Domestic Infl</td>
<td>4.00</td>
<td>Issues in international business to build an interdisciplinary strategic perspective on management in a global environment.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>GER5110</td>
<td>German Conversation I</td>
<td>5.10</td>
<td>Emphasis on the culture of the German-speaking world.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>MUS6460</td>
<td>Medieval &amp; Renaissance</td>
<td>0.50</td>
<td>Study of music and critical analysis of representative works from major composers of Medieval and Renaissance music.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>ENG7550</td>
<td>Study of World Englishes</td>
<td>3.00</td>
<td>Reading, research, reports, and discussion on topics dealing with the spread of World Englishes.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>CHI5010</td>
<td>Advanced Chinese I</td>
<td>5.01</td>
<td>Development of linguistic proficiency through studying advanced reading and grammar patterns with emphasis on cultural aspects of communication.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>REL2070</td>
<td>Western Religions</td>
<td>2.07</td>
<td>General introduction to the major religious traditions of Judaism, Christianity, Islam, and other selected religious traditions.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>ED6550</td>
<td>AYA Int Pt II Std T IM</td>
<td>6.55</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades 7-12.</td>
<td>GR</td>
<td>IN</td>
</tr>
<tr>
<td>BIO1150</td>
<td>Organisms and Ecosystems</td>
<td>1.15</td>
<td>Introduction to basic concepts of biology. Topics include evolution, ecology, and the diversity of life.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>ART3770</td>
<td>Fab/Constructio n Process</td>
<td>3.77</td>
<td>Development of personal concepts and aesthetic expression using wood and metal fabrication.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>ENG5020</td>
<td>TA Practicum I</td>
<td>5.02</td>
<td>For English teaching assistants only. Continuing TAs are assigned to an instructional class that focuses on the teaching of writing in ENG 1100 for a supervised practicum experience.</td>
<td>GR</td>
<td>PR</td>
</tr>
<tr>
<td>REL3320</td>
<td>Islam in Modern World</td>
<td>3.32</td>
<td>Study of how Muslim thinkers and theologians have responded to the challenges of the modern era.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>IT1210</td>
<td>Intro Photo Design Sci</td>
<td>1.21</td>
<td>Basic terminology and techniques of photography including posing subjects and using photo editing software to enhance photography. Integrated lecture and lab.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>CEG5310L</td>
<td>Computer Organization Lab</td>
<td>5.31</td>
<td>Required laboratory for CEG 5310.</td>
<td>GR</td>
<td>LB</td>
</tr>
<tr>
<td>PPH7640</td>
<td>Prcnc. of Emerg. Mgmt</td>
<td>7.64</td>
<td>Course provides an understanding of the phenomena of disasters and management of disaster impacts, as well as an understanding of the emergency management system, currently in place in the US, which serves as a model for developing systems worldwide. Analysis of the National Incident Management System for disaster/crisis/consequence management will be done through case studies, lecture, and independent study that will provide insight into emergency management and the role of public health plays.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>PHY2400L</td>
<td>General Physics I Lab</td>
<td>2.40</td>
<td>Introductory physics laboratory problems in mechanics, oscillation and thermodynamics.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>BMS7030</td>
<td>Research Ethics</td>
<td>0.70</td>
<td>(Also listed as BMB 7030.) Research ethics emphasizes the evaluation of hypothetical ethical scenarios in biomedical research. Class discussion is based on integrating ethical policy and practices as they relate to research at Wright State and beyond.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>FR3610</td>
<td>French Phonetics</td>
<td>3.61</td>
<td>Pronunciation, diction, rhythm, and intonation. Transcription exercises and oral production. Taught in French.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Semester</td>
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<tr>
<td>Spring 2021</td>
<td>EES4660</td>
<td>Clastic and Carbonate Sedimentary Rocks, Their Mineralogy, Texture, Provenance, and Classification</td>
<td>1</td>
<td>Practical application of the theories of safety and health law. Intended for persons having management responsibility for occupational safety and health.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1440A</td>
<td>Phys Ed for Disabled</td>
<td>1</td>
<td>Fundamental skills and knowledge of Physical Education for Disabled. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME3210</td>
<td>System Dynamics</td>
<td>3</td>
<td>Introduces students to the system level modeling of dynamic engineering systems including, but not restricted to, linear and rotational mechanical, fluid, thermal, and electrical systems. Modeling of control devices (motors, heaters, pumps) is addressed.</td>
<td>UG</td>
</tr>
</tbody>
</table>

**Spring 2021 - GE Course Listings**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ASM7972</td>
<td>Aerospace Research II</td>
<td>7972</td>
<td>Introduction to Aerospace Medical Research II will build upon the concepts studied in Aerospace Medical Research I and further explore the techniques by which contemporary scientific inquiry are performed. This course will assist students in the completion of their aerospace medicine research project required for graduation.</td>
</tr>
<tr>
<td>ED6530</td>
<td>AYA Int Pr II: Std T ISS</td>
<td>6530</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades 7-12 in Integrated Social Studies.</td>
</tr>
<tr>
<td>EC7250</td>
<td>Econ Social &amp; Eco Sys</td>
<td>7250</td>
<td>Economies as subsystems of social systems and ecosystems. Karl Polanyi's and Douglass North's analyses of institutions and feedbacks between economy and culture. Human ecology and ecological economics perspectives on feedbacks between economy and ecology.</td>
</tr>
<tr>
<td>EES6160</td>
<td>Stratigraphy &amp; Sed</td>
<td>6160</td>
<td>Clastic and carbonate sedimentary rocks, their mineralogy, texture, provenance, and classification. Principles, rules, and geologic and geophysical correlation techniques. Fluid flow sediment transport and deposition, sedimentary structures, and depositional environments.</td>
</tr>
<tr>
<td>ME6750</td>
<td>Mat. Characterization</td>
<td>6750</td>
<td>Principles of characterizing materials with respect to crystal structure, micro/nano structure, and chemical composition using particle or wave-based probes (visible lights, X-rays, and energetic electrons). The interactions between the probes and materials are discussed. Characterization at both qualitative and quantitative level will be elucidated. Laboratory exercises are included.</td>
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<tr>
<td>EDL7940</td>
<td>Bldg Budget, Mgmt, SS</td>
<td>7940</td>
<td>Leading the pupil personnel service aspects of school operation, including ethical considerations, special education requirements, student attendance and accounting, guidance, counseling, health and wellness, discipline, and extracurricular/co-curricular activities.</td>
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<tr>
<td>PSY2130</td>
<td>Environmental Psychology</td>
<td>2130</td>
<td>Effects of environmental factors such as crowding, noise, pollution, temperature, lighting, and architecture on human behavior. Applications of psychological knowledge and techniques to current environmental problems.</td>
</tr>
<tr>
<td>FR3820</td>
<td>Applied Elem Fr Instruct</td>
<td>3820</td>
<td>French majors and minors assist FR 1010 or FR 1020 course instructors in conducting classes. Taught in French.</td>
</tr>
<tr>
<td>GER3980</td>
<td>Studies in Select Subj</td>
<td>3980</td>
<td>Individual research project approved and supervised by a full-time faculty member. Taught in German.</td>
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<tr>
<td>SCM3200</td>
<td>Basics of SCM</td>
<td>3200</td>
<td>Fundamentals of supply chain management, including the strategic role of the supply chain, key drivers of supply chain performance, and analytical tools and techniques for supply chain analysis. Cases and in-class exercises.</td>
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<tr>
<td>KNH1200</td>
<td>Fencing: Beginning</td>
<td>1200</td>
<td>Fundamental skills and knowledge of Fencing: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>Adv Inorganic Chem II</td>
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<td>WGS3200</td>
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<td>ART3150</td>
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<td>ART2280</td>
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<td>SW Field Ed Seminar I</td>
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<td>Art Theory and Criticism</td>
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<td>PTX8130</td>
<td>8130</td>
<td>NanoMedicine</td>
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<td>CNL8000</td>
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<td>Human Sexuality Counsel</td>
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<td>4310</td>
<td>Philanthropy/Grantmaking</td>
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<td>ENG3420</td>
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<td>Post-Colonial Texts</td>
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<td>Issues in Metro Dev.</td>
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<td>Inside Dance: Art &amp; Entertainment</td>
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<td>Job Search/Port Dev</td>
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<td>Senior Dance Project</td>
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<td>Readings Greek Politics</td>
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<td>PLS Political Science</td>
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| FR6030     | 3.0     | Adv Studies: Lang Civilian                                          | FR         | LE   | Lecture | Course content will vary. Topic chosen by instructor. Conducted in French.                                                                                                                                | ECE 2500 Minimum Grade of C or Undergraduate level PHY 2400 Minimum Grade of C or Graduate level FR 5120 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or 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or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C or Gradu...
Spring 2021  MUS4360  4360  Counterpoint  MUS  Music  3  Introduction to contrapuntal techniques. Exercises in species counterpoint, imitation and fugal devices. Analysis of examples from the Renaissance to the 20th century.  UG  LE  Lecture

Spring 2021  MIS4800  4800  Special Topics in IS  MIS  Management Information Systems  3  Each offering focuses on one area of emerging technology or information systems management. Topics could include information assurance, information architecture, data mining and data warehouse.  UG  LE  Lecture

Spring 2021  EC7100  7100  Math Methods for Econ  EC  Economics  3  This course will introduce students to the major mathematical methods that are used to represent economic theories in modern economics, and how these methods are used to analyze problems posed in economics. <b>Department Managed Prerequisite(s):</b> Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5100 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D.  GR  LE  Lecture

Spring 2021  PHY5710  5710  Mechanics  PHY  Physics  3  Intermediate problems in statics, kinematics, and dynamics; the study of equilibrium of forces, rectilinear motion, curvilinear motion, central forces, constrained motion, energy and moments of inertia; and the Lagrange method.  GR  LE  Lecture

Spring 2021  ED6450  6450  AYA Intern Pt I: Mth IM  ED  Education  1  Candidates, mentored by a mathematics educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a 7-12th grade setting applying pedagogical content knowledge from mathematics content and methods courses.  GR  IN  Internship

Spring 2021  PLS6530  6530  Soviet Successor States  PLS  Political Science  3  Examines the political life in the former Soviet Union, with emphasis on the legacy of communism and the role of economics and politics in the transition to democracy.  GR  LE  Lecture

Spring 2021  EES6120  6120  Earth Materials  EES  Earth & Environmental Sciences  4  This course provides an understanding of the minerals and rocks that make up the solid earth, their significance and uses. Based upon the 'rock cycle' the materials studied include the rock-forming minerals as well as their weathered products. The laboratory focuses upon the identification and classification of minerals and rocks in hand specimen.  GR  LL  Lecture/Lab Combination

Spring 2021  DAN2310  2310  Intermediate Jazz II  DAN  Dance  2  Second-year intermediate jazz dance technique. Focus on technical diversity, musicality, artistry, and performance and on increasing body strength, flexibility, and kinesthetic awareness.  UG  ST  Studio

Spring 2021  NUR7611  7611  Psych MH NP Prac I  NUR  Nursing  7  The focus is on comprehensive symptom assessment and diagnostic reasoning in the management of individuals and families with acute and chronic alterations in psychiatric/mental health status across the lifespan. Health promotion, health behaviors, and disease prevention strategies are emphasized with respect to epidemiology, risks, and growth and development. Therapeutic communication, ethics, and cultural competency are emphasized. Advanced practice role development is incorporated.  GR  LE  Lecture

Spring 2021  MUE2460  2460  University Saxophone Quartet  MUE  Music: Ensembles  1  Performs saxophone quartet repertoire ranging from classic to jazz to contemporary. Audition required.  UG  LL  Lecture/Lab Combination

Spring 2021  ISE3512L  3512L  Bioelectronics II Lab  ISE  Industrial & Systems Engr  0  Required laboratory for ISE 3512.  UG  LB  Lab


Spring 2021  CEG4520  4520  Sci Vis and Virt Env  CEG  Computer Engineering  3  Visualization approaches for different data types, using real-world data sets. Different usage modalities, including non-traditional input devices and display types.  UG  LE  Lecture

Spring 2021  KNH1380  1380  Kayaking: Recreational  KNH  Kinesiology & Health  1  Fundamental skills and knowledge of Kayaking: Recreational. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.  UG  LB  Lab

Spring 2021  EC6350  6350  Comparative Capital Inst  EC  Economics  3  Compares economic institutions of industrialized countries including the newly industrialized countries (NIC's). Addresses such issues as industrial relations, roles of state, methods of corporate finance, and social safety nets. <b>Department Managed Prerequisite(s):</b> Graduate level EC 5220 Minimum Grade of C.  GR  LE  Lecture

Spring 2021  SPN3550  3550  SPN Serv Learning Abroad  SPN  Spanish  3  Students engage in an international service learning project in teaching, translation or interpreting in a Hispanic country. Student must be enrolled in a Wright State sponsored Ambassador Program to a Spanish-speaking country, such as Mexico, Puerto Rico, Spain. <b>Department Managed Prerequisite(s):</b> Undergraduate level SPN 2020 Minimum Grade of D.  UG  PR  Practicum
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<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Requirement</th>
<th>Type</th>
<th>Notes</th>
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<td>PPH8220</td>
<td>Public Health ILE II</td>
<td>3</td>
<td>This course provides the opportunity to apply, integrate, and synthesize knowledge and experience gained throughout the MPH Program to a question or problem of public health relevance. Under supervision of a faculty advisor students conduct an integrative writing project usually developed in the form of an applied research paper, policy analysis, community assessment, program evaluation, comprehensive case analysis, or “best practices” review. A full report is written and presented.&lt;br&gt;Department Managed Prerequisite(s): Graduate level PPH 8210 Minimum Grade of D&lt;br&gt;</td>
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<td>IS</td>
<td>Independent Study</td>
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<td>KNH1180B</td>
<td>Dance: Swing</td>
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<td>Fundamental skills and knowledge of Dance: Swing. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<td>IT1010</td>
<td>Graphic Terminology/Design</td>
<td>3</td>
<td>Desktop publishing and graphic terminology used in today’s graphics communications, and principles of design in printed media. Trends, history and ethics in print media.</td>
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<td>Medieval History</td>
<td>3</td>
<td>Examines the period following the decline of the Roman Empire to ca. 1450. Topics vary and can include European, Islamic, and Byzantine civilizations. Integrated Writing course.</td>
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<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>ME7080</td>
<td>Multidisc Structl Optm</td>
<td>3</td>
<td>Structural optimization of large scale systems with constraint approximations, sensitivity analysis, and design variable linking methods. Primal, dual, and optimality criteria methods for shape and size optimization, 3 hour lecture.&lt;br&gt;Department Managed Prerequisite(s): Graduate level ME 6080 Minimum Grade of D and Graduate level ME 6120 Minimum Grade of D and Graduate level ME 7100 Minimum Grade of D&lt;br&gt;</td>
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<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>Spring 2021</td>
<td>ECE4100</td>
<td>Science Methods in ECE</td>
<td>1</td>
<td>Curricula and materials for teaching early childhood science with emphasis on using an integrated constructivist approach to science teaching. Includes development of appropriate learning targets, planning, implementation, evaluation, and trends in science education.</td>
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<td>LE</td>
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<td>Spring 2021</td>
<td>HST7815</td>
<td>Records and Info Management</td>
<td>3</td>
<td>Examines traditional and emerging concepts, practices, and methodologies related to the management of records and information in a variety of institutional settings.</td>
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<td>Philosophy of Language</td>
<td>3</td>
<td>A study of major issues such as sense and reference, theories of meaning and truth, language games, nature of grammar and syntax, language and thought.</td>
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<td>Distrib Sys &amp; Cloud Comp</td>
<td>3</td>
<td>Study of process communication, core distributed algorithms, distributed file systems, cloud computing, and massive scale data-parallel processing.&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level CEG 4350 Minimum Grade of D or Graduate level CEG 6350 Minimum Grade of D&lt;br&gt;</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO4410</td>
<td>Cartography</td>
<td>4</td>
<td>Basic concepts of cartography, including components of maps, coordinate system, spatial projections, and map design. Special emphasis on data, computational methods and ethical cartographic practices.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ARA5210</td>
<td>Adv ARA Syntax &amp; Gramr</td>
<td>3</td>
<td>A course based in western approaches to Arabic morphology and grammar, designed to prepare students to engage primary texts, both modern and classical.&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level ARA 2020 Minimum Grade of D&lt;br&gt;</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6840</td>
<td>Mat Sel for Mech Design</td>
<td>3</td>
<td>Principles of materials-limited design. Lectures, case histories, open-ended assignments and computer based materials selection tools. Procedures for selection of optimum material(s) under constraints resulting from functional, reliability, safety, cost and environmental issues.&lt;br&gt;Department Managed Prerequisite(s): (Undergraduate level ME 2700 Minimum Grade of D and Graduate level ME 5120 Minimum Grade of D) or Undergraduate level ME 3120 Minimum Grade of D&lt;br&gt;</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE4800</td>
<td>ECE Professional Seminar</td>
<td>3</td>
<td>Seminar course prepares ECE teacher candidates for entering the field of teaching. Topics include: licensure, resume building, creating an interview portfolio, job search, interviewing techniques, teacher assessments, and dispositions and ethics surrounding teachers. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GER4100</td>
<td>Baroque German Lit.</td>
<td>3</td>
<td>Representative German authors of the period.&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D or Undergraduate level GER 3120 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3260 Minimum Grade of D or Undergraduate level GER 3310 Minimum Grade of D or Undergraduate level GER 3320 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D or Undergraduate level GER 3610 Minimum Grade of D&lt;br&gt;</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Code</td>
<td>Year</td>
<td>Course Title</td>
<td>Department</td>
<td>Units</td>
<td>Description</td>
<td>Prerequisite(s)</td>
<td>Level</td>
</tr>
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</tr>
<tr>
<td>ML2020</td>
<td>Spring</td>
<td>Chinese Culture in Film</td>
<td>ML</td>
<td>3</td>
<td>Chinese culture and traditions in film, with special emphasis on issues related to nationhood, modernity, education, gender roles, family values, equality, and globalization.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>PLS6160</td>
<td>Spring</td>
<td>Sex and the Law</td>
<td>PLS</td>
<td>3</td>
<td>Addresses how government uses law to regulate sex as activity, expression, and identity.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>SLI3900</td>
<td>Spring</td>
<td>Interpreter Proficiency &amp; Readiness</td>
<td>SLI</td>
<td>3</td>
<td>Preparation for practicum - reading and discussing current events and topics within the field, development of professional portfolio, resume, work samples, practicum goals and planning with 30 hour field-based observations and experience journal.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>EDS4690</td>
<td>Spring</td>
<td>Clinical Pract Remediate</td>
<td>EDS</td>
<td>4</td>
<td>Use assessment data to plan and implement remediation in a school setting. Write professional case study integrating assessment and tutoring includes. During a minimum of 24 hours in a P-12 school setting.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>BMS3750</td>
<td>Spring</td>
<td>Bioinformatics &amp; Plant Systematics</td>
<td>BIO</td>
<td>4</td>
<td>The diversity of vascular plant species with an emphasis on angiosperms, phylogenetic relationships and methods, terminology pertinent to taxonomic classification and nomenclature.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>PPH7530</td>
<td>Spring</td>
<td>Health Systems Comm</td>
<td>PPH</td>
<td>3</td>
<td>The course introduces principles and practices of communication in health systems settings. Students develop knowledge in communication styles, interpersonal relations, conflict management, grant writing, consensus building, conducting meetings, correspondence, and community communication with the media, interviews, and risk communication. Case studies are used from healthcare and other sectors. The course is presented by an interdisciplinary team of faculty and community leaders.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>CEG4110</td>
<td>Spring</td>
<td>Intro to Software EGR</td>
<td>CEG</td>
<td>3</td>
<td>Introduction to the concepts of Software Engineering. Software qualities, development life-cycle models, requirements analysis, semi-formal and formal systems modeling, system design, testing, and project management techniques. Case studies and a course project serve as examples illustrating the software engineering process.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>BIO3310</td>
<td>Spring</td>
<td>Vertebrate Zoology</td>
<td>BIO</td>
<td>4</td>
<td>Basic structures of vertebrates: anatomy and functional morphology, major adaptations and phylogenetic constraints. Major radiations of vertebrate groups during geological, climatic, and biological events. Current threats to various vertebrate groups, such as habitat loss, loss of genetic diversity.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>PPH7660</td>
<td>Spring</td>
<td>Public Health &amp; Terrorism</td>
<td>PPH</td>
<td>3</td>
<td>This course provides an in-depth investigation of terrorists, their targets and potential methods and the resultant implications for public health and emergency managers. This course explores terrorists and their motives, vulnerability of critical infrastructure and other civilian targets, risk assessment and interventions. This course will describe and critique local, national and international resources and initiatives in this evolving modern phenomenon.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>PSY9025</td>
<td>Spring</td>
<td>Intro to MATLAB</td>
<td>PSY</td>
<td>2</td>
<td>This course will introduce students to the use of MATLAB in psychological research. We will cover the basics of the MATLAB environment, including the interface, data types, control flow, and plotting.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>PSY4370</td>
<td>Spring</td>
<td>Psychology of Aging Cap</td>
<td>PSY</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on theories, methods, and research related to human aging. Focus on both current research and applications from psychology. Integrated Writing course.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>FR1020</td>
<td>Spring</td>
<td>Beginning French I</td>
<td>FR</td>
<td>3</td>
<td>Communicative introduction to French structures and vocabulary and to French and Francophone cultures. Practice in speaking, listening, reading and writing. Taught in French. Department Managed Prerequisite(s): Undergraduate level FR 1010 Minimum Grade of C in French.</td>
<td>Department Managed Prerequisite(s): Undergraduate level FR 1010 Minimum Grade of C in French.</td>
<td>UG</td>
</tr>
<tr>
<td>NUR7720</td>
<td>Spring</td>
<td>Pri Cr to Age 2 Form III</td>
<td>NUR</td>
<td>2</td>
<td>This course is for students enrolled in the neonatal nurse practitioner concentration in the MS in Nursing program. The focus of this course is on the growth and development of former preterm and critically ill infants and the impact of morbidity that originated in the newborn period. Differential diagnosis and treatment plans will be directed towards achieving the highest level of wellness obtainable.</td>
<td>Department Managed Prerequisite(s): Undergraduate level SW 3700 Minimum Grade of D.</td>
<td>GR</td>
</tr>
<tr>
<td>EC2900</td>
<td>Spring</td>
<td>Global Econ Bus Social</td>
<td>EC</td>
<td>3</td>
<td>Analyzes controversy and diversity of opinions regarding global economic, business, and social issues, including social security, health care, poverty, labor discrimination, pollution, and business ethics. Integrated Writing course.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>BMS7461</td>
<td>Spring</td>
<td>Rehab Eng Computers II</td>
<td>BMS</td>
<td>3</td>
<td>Continuation of BMS 7461. Focuses on development of computer application programs and assistive devices for people with disabilities.</td>
<td>Department Managed Prerequisite(s): Undergraduate level SW 3700 Minimum Grade of D.</td>
<td>GR</td>
</tr>
<tr>
<td>SW3750</td>
<td>Spring</td>
<td>Hum Behav Soc Env -Macro</td>
<td>SW</td>
<td>3</td>
<td>Analysis of groups, systems, and community organizations in order to guide assessment, intervention, and evaluation of social work practice. Includes theories such as systems theory, social justice, oppression, and basic human rights.</td>
<td>Department Managed Prerequisite(s): Undergraduate level SW 3700 Minimum Grade of D.</td>
<td>UG</td>
</tr>
<tr>
<td>Term</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Level</td>
<td>Component</td>
<td>Prerequisites</td>
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<tr>
<td>Spring</td>
<td>PSY4400</td>
<td>4400</td>
<td>Ind/Org Psych Cap</td>
<td>Communication-intensive seminar integrating knowledge on industrial/organizational psychology. Topics will vary. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring</td>
<td>MI6750</td>
<td>6750</td>
<td>Pathogenic Mechanisms</td>
<td>(Also listed as BMS 7750) This advanced level course will expand the knowledge of basic microbiology by focusing on human-microbial pathogen interactions. The molecular basis of the pathogenic mechanisms will be emphasized. In addition, the student will gain a better appreciation and understanding of the complexities of interactions between microbes and their human hosts.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>KNH1060B</td>
<td>1060B</td>
<td>Backpacking</td>
<td>Fundamental skills and knowledge of Backpacking. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>PLS4770</td>
<td>4770</td>
<td>International Org</td>
<td>Examines the competing theoretical perspectives on international organization and analyzes the structure, functions, and the evolving role of key international organizations. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>MI4200</td>
<td>4200</td>
<td>Neu-ImmSys Crs-Tlk Hmsts</td>
<td>Multidirectional interactions between the nervous and immune systems have been documented in homeostasis and pathologies ranging from multiple sclerosis to autism, and from leukaemia to acute and chronic inflammation. This course focuses on neuro-immune interactions at barrier surfaces—mostly the gut, but also including the skin and the airways, areas densely populated by neurons and immune cells that constantly sense and adapt to tissue-specific environmental challenges.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>ME7750</td>
<td>7750</td>
<td>Adv Egr Materials</td>
<td>This course will define and explain crystalline structure of materials, different types of amorphous structures, polarization, band structures and thermal properties, nanostructures, magnetic behavior of materials, and optical phenomena. Department Managed Prerequisite(s): Undergraduate level ME 4700 Minimum Grade of D or Graduate level ME 6700 Minimum Grade of D&gt;&lt;.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>ITA1020</td>
<td>1020</td>
<td>Beginning Italian II</td>
<td>Communicative introduction to Italian. Study of the vocabulary and structure of the Italian language; practice in speaking, listening, reading, and writing. Department Managed Prerequisite(s): Undergraduate level ITA 1010 Minimum Grade of C&gt;&lt;.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>AVI2000</td>
<td>2000</td>
<td>Intro to Aviation</td>
<td>Introduction to aviation systems and careers: airlines, business, freight, flight test, and military flight operations. Introduces aviation systems including aircraft, airports, airspace, and regulatory environment for the broad range of aviation activities.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>MLB4411</td>
<td>4411</td>
<td>Hemostasis Lab</td>
<td>Blood vessel contraction, platelet activation and formation, and activation of coagulation factors, and their use in diagnosing coagulation defects and monitoring anticoagulant therapy. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>FR6930</td>
<td>6930</td>
<td>Franco-American Films</td>
<td>This course will examine the Americanization of selected French language films as a powerful tool for cross-cultural comparison. Film pairs analyzed will include Breathless and À Bout de souffle, Les Visiteurs and Just Visiting, La Femme infidèle and Unfaithful,etc. Taught in French. Department Managed Prerequisite(s): Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D&gt;&lt;.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>COM3330</td>
<td>3330</td>
<td>Persuasion &amp; Rhet Theory</td>
<td>Delineation of the concept of persuasion together with an overview of general rhetorical theory. Preparation and presentation of persuasive communication. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>REL5540</td>
<td>5540</td>
<td>Asian RELS and Ecology</td>
<td>An examination of Asian religious perspectives (Confucianism, Daoism, Buddhism, and Shinto) on the meaning and value of the natural world and the relationship between human beings and nature. Focuses on environmental ethics in comparative Asian perspective.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>BIO1150L</td>
<td>1150L</td>
<td>Organisms &amp; Ecosystems Lab</td>
<td>Required laboratory for BIO 1150.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring</td>
<td>SPN6810</td>
<td>6810</td>
<td>Ind Read Grad Students</td>
<td>Independent reading for graduate students. Department Managed Prerequisite(s): Graduate level SPN 5110 Minimum Grade of D or Graduate level SPN 5120 Minimum Grade of D or Graduate level SPN 5210 Minimum Grade of D or Graduate level SPN 5220 Minimum Grade of D&gt;&lt;.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring</td>
<td>EE7490</td>
<td>7490</td>
<td>Antenna Theory &amp; Design</td>
<td>The course introduces the fundamental principles of antenna theory, covering radiation integrals, auxiliary potential functions, fundamental parameters of antennas, linear wire antennas, loop antennas, antenna arrays, microstrip antennas, and traveling wave antennas. Antenna teaching lab will be developed to assist students to learn the design, fabrication, and characterization of various types antenna.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>SW6740</td>
<td>6740</td>
<td>Child Welfare II</td>
<td>Addresses the developmental and permanence needs of children in the child welfare system.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring</td>
<td>ART3010</td>
<td>3010</td>
<td>Independent Study in Art</td>
<td>Special studies and intensive individual work with faculty supervision.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST4900</td>
<td>4900</td>
<td>Research Seminar</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Tools and techniques for preparing a significant research paper in conformity with contemporary standards. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE3030</td>
<td>3030</td>
<td>Circuit Analysis II</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Circuit review, alternating current concepts, computer-aided circuit analysis, two-port networks, power.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AFS3000</td>
<td>3000</td>
<td>History of Africa</td>
<td>AFS</td>
<td>Afr./Afr Amer Studies</td>
<td>3</td>
<td>General introduction to African history. Covers the culture and history of the region from early periods to the modern era.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN4780</td>
<td>4780</td>
<td>Hon: Ind Study in Finance</td>
<td>FIN</td>
<td>Finance</td>
<td>1</td>
<td>Research in finance for fulfillment of the Honors program project requirement.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM8000</td>
<td>8000</td>
<td>Seminar</td>
<td>CHM</td>
<td>Chemistry</td>
<td>1</td>
<td>Departmental Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL9601</td>
<td>9601</td>
<td>Adv. Crisis Intervention</td>
<td>CNL</td>
<td>Counseling</td>
<td>3</td>
<td>Overview of issues associated with trauma, stress, crisis, and disaster experiences and the importance of differentiating their varying characteristics. Emphasis on knowledge and skills of different types of interventions.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME6410</td>
<td>6410</td>
<td>Biothermodynamics</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Students will be able to apply first and second laws, along with constitutive equations for simple fluids to problems involving human systems, and human physiology/biology. Department Managed Prerequisite(s): Undergraduate level MEC 3211 Minimum Grade of D</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6830</td>
<td>6830</td>
<td>Resrch to Imp Class Inst</td>
<td>ED</td>
<td>Education</td>
<td>2</td>
<td>Introduction to reading educational research, including applied and theoretical and qualitative and quantitative. Differentiation of quality/applicability of research articles. Understanding researchable questions and how questions determine the methodology. Searching for appropriate literature.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4735</td>
<td>4735</td>
<td>TESOL Theory and Culture</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Presents a theoretical foundation for the study of second language acquisition, including awareness of first language acquisition. Builds awareness of cultural similarities and differences and addresses the impact of cultural and personal variables on English language learning. Integrated Writing course. This course is designed for students in the combined BA/MA program in TESOL. Department Managed Prerequisite(s): Undergraduate level ENG 2100 Minimum Grade of D</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ACC7470</td>
<td>7470</td>
<td>Current Topics Acctg.</td>
<td>ACC</td>
<td>Accountancy</td>
<td>3</td>
<td>This course is an overview of issues directly impacting the accounting profession or issues impacting business that indirectly effect the accounting profession.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI4560</td>
<td>4560</td>
<td>Legal Interpreting</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
<td>Introduces the American legal system and interpreting for the Deaf in that setting. Arrest, Miranda Warning, questioning, and court settings will be discussed including ethical issues and interpretation practice.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7200</td>
<td>7200</td>
<td>Teaching College Comp I</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Introduction to the theory and pedagogy of college-level writing courses. Requires concurrent teaching or tutorial experience. Required of all first-year English teaching assistants.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7613</td>
<td>7613</td>
<td>Psych MH NP Prac III</td>
<td>NUR</td>
<td>Nursing</td>
<td>7</td>
<td>The focus is on synthesis of knowledge and implementation of the role of the Psychiatric-Mental Health Nurse Practitioner (PMHNP). Experiences emphasize clinical decision making in an inter-professional environment with focus on the PMHNP as a principle provider of care for individuals with acute and chronic psychiatric/mental health disorders across the lifespan.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL3410</td>
<td>3410</td>
<td>Aesthetics &amp; Phil of Art</td>
<td>PHL</td>
<td>Philosophy</td>
<td>3</td>
<td>Exploration of philosophical theories of art. Students will critically examine their artistic experiences and prejudices to develop a richer sense of why we value the arts. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL9950</td>
<td>9950</td>
<td>Dist Lvl Lic Prog: Mdt</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Candidates explore various educational leadership topics/issues and their relationship to praxis.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT4850</td>
<td>4850</td>
<td>International Management</td>
<td>MGT</td>
<td>Management</td>
<td>3</td>
<td>Distinctive managerial challenges in conducting business in diverse regions and nations around the world; environmental constraints and functional competencies in international management.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3410</td>
<td>3410</td>
<td>Lifespan Development Psy</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Survey of psychological theories and research used in the study of human development to understand development from conception to death. Emphasis is placed on normal growth and milestones achieved in the physical, cognitive, social and emotional systems.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI8060</td>
<td>8060</td>
<td>Affective Bases of Behavior</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>The purpose of this course is to introduce students to the major issues and important concepts in emotion and cognition. In addition, we will examine how these two domains of human functioning mutually influence each other. Students will learn how basic, complex, and social emotions may be experienced, interpreted, expressed, or regulated. The relationship between emotional and cognitive processes such as attention, learning, memory, and decision making will be explored. Finally, students will learn about cultural presentations and differences in cognitive and affective behavior.</td>
</tr>
<tr>
<td>Semester</td>
<td>Code</td>
<td>Title</td>
<td>Description</td>
<td>Credits</td>
<td>Type</td>
<td>Location</td>
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<tr>
<td>Spring 21</td>
<td>PHY1120R 1120R</td>
<td>Principles of Physics II Rec</td>
<td>Required recitation for PHY 1120.</td>
<td>0</td>
<td>UG</td>
<td>RECITATION</td>
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<tr>
<td>Spring 21</td>
<td>CSD2870 2870</td>
<td>CSD Practicum I</td>
<td>Application of theory and practice in Community Development/Services settings. Individual supervised learning experiences and on-site seminars under the direction of instructor and site staff.</td>
<td>1</td>
<td>UG</td>
<td>PR Practicum</td>
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<tr>
<td>Spring 21</td>
<td>FIN4810 4810</td>
<td>Internship in Finance</td>
<td>Faculty-supervised internship in finance. Students work in a firm or public agency, participate in seminars, and submit reports. Topics vary.</td>
<td>1</td>
<td>UG</td>
<td>IN Internship</td>
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<tr>
<td>Spring 21</td>
<td>ECE3750 3750</td>
<td>Writing Methods in ECE</td>
<td>The study of writing development, writing theory, writing genres, writing assessment, instructional pedagogy, and materials in early childhood language arts program development, and the integration of literature and language arts across PK-3 grade curricula. Integrated Writing course.</td>
<td>3</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>WGS6000 6000</td>
<td>Topics Gender/Sexuality</td>
<td>Issues, approaches, and topics in the field of gender and sexuality studies. Titles and topics vary.</td>
<td>3</td>
<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ASL3010 3010</td>
<td>Deaf Culture &amp; Community</td>
<td>Major concepts and issues in the field of deafness, integrating the disciplines of history, anthropology, linguistics, creative arts, and literature as they apply to deaf culture and the deaf community and the current cultural trends and issues.</td>
<td>3</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MTH4820 4820</td>
<td>Applied Mathematics II</td>
<td>Use of integral transforms in the solution of differential and integral equations, Fourier series, Fourier and Laplace transforms, distributions, integral equations, Green's functions, Sturm-Liouville theory, perturbation methods and asymptotics, orthogonal functions, and special functions.</td>
<td>3</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MUE4930 4930</td>
<td>University Men's Chorale</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced choral literature from a wide range of historical and compositional styles. Audition required.</td>
<td>3</td>
<td>UG</td>
<td>LL Lecture/Lab Combination</td>
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<tr>
<td>Spring 21</td>
<td>HPR2430 2430</td>
<td>Motor Dev &amp; Learning</td>
<td>Examination of the factors influencing the development, performance and learning of motor skills.</td>
<td>4</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>PLS4030 4030</td>
<td>Campaigns and Elections</td>
<td>American political electoral institutions and processes, and campaigns. Emphasis on readings, discussion, and research. Integrated Writing course.</td>
<td>3</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 21</td>
<td>TH3760 3760</td>
<td>Design Studio</td>
<td>Study of theatrical costume, scenery, lighting and/or sound design. Includes theoretical and practical design work with an emphasis in the area of interest.</td>
<td>2</td>
<td>UG</td>
<td>ST Studio</td>
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<td>Semester</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Prerequisites</td>
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<tr>
<td>Spring 2021</td>
<td>ME6520</td>
<td>6520</td>
<td>Hydropower</td>
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<tr>
<td></td>
<td>ME</td>
<td>3</td>
<td>Mechanical and Materials Engr</td>
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<td>Topics covered are hydraulics of turbomachines for power generation, hydrologic analysis for hydropower development for run-of-the river systems and reservoir systems, dams and environmental impacts, environmental impact assessment, operations of reservoir systems, and economics of hydropower generation. Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D or Undergraduate level ME 5350 Minimum Grade of D.</td>
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<tr>
<td>Spring 2021</td>
<td>RHB2010</td>
<td>2010</td>
<td>Intro to Rehab Services</td>
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<td></td>
<td>RHB</td>
<td>3</td>
<td>Rehabilitation</td>
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<td>Philosophy, history and legislation of rehabilitation services and career options. Students visit rehabilitation agencies and interact with populations and agencies they may serve as a rehabilitation provider.</td>
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<td>Spring 2021</td>
<td>MTH1350</td>
<td>1350</td>
<td>Analytic Geometry &amp; Trig</td>
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<td></td>
<td>MTH</td>
<td>3</td>
<td>Mathematics</td>
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<td>Polynomial equations, conic sections, trigonometric and inverse trigonometric functions, trigonometric identities, solution of triangles.</td>
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<tr>
<td>Spring 2021</td>
<td>NEU3200</td>
<td>3200</td>
<td>How Nerv Sys Works II</td>
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<td></td>
<td>NEU</td>
<td>4</td>
<td>Neuroscience</td>
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<td>How the nervous system works among and between neural networks to elicit behavioral responses to external and internal stimuli. Topics will include 1) how the brain interacts with the world, 2) higher levels of interaction, and 3) motivated behaviors. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>MS2040</td>
<td>2040</td>
<td>Intro to Business Stats</td>
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<td>MS</td>
<td>3</td>
<td>Management Science</td>
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<td>Statistical methods used in analysis of business problems, including theory and application of frequency distributions, measures of central tendency and variability, probability distributions, expectation, sampling and estimation, and one-sample hypothesis testing.</td>
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<tr>
<td>Spring 2021</td>
<td>ECE3150</td>
<td>3150</td>
<td>Literacy Meth: Reading</td>
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<td></td>
<td>ECE</td>
<td>3</td>
<td>Education - Early Childhood</td>
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<td>Formal reading instruction in early childhood classrooms; strategies and materials for teaching reading to young children.</td>
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<tr>
<td>Spring 2021</td>
<td>PHL5830</td>
<td>5830</td>
<td>Faith &amp; Reason</td>
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<td></td>
<td>PHL</td>
<td>3</td>
<td>Philosophy</td>
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<td></td>
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<td>Issues in the philosophy of religion. Topics vary.</td>
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<tr>
<td>Spring 2021</td>
<td>PLS4440</td>
<td>4440</td>
<td>Topics Criminal Justice</td>
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<td></td>
<td>PLS</td>
<td>3</td>
<td>Political Science</td>
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<td>Problems, approaches, and topics in the field of criminal justice. Topics vary. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>MUE2700</td>
<td>2700</td>
<td>Units Symphony Orchestra</td>
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<td></td>
<td>MUE</td>
<td>1</td>
<td>Music: Ensembles</td>
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<td></td>
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<td>Performs orchestral music of all styles and periods.</td>
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<tr>
<td>Spring 2021</td>
<td>AED6780</td>
<td>6780</td>
<td>MA: Visual Arts: C&amp;M II</td>
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<td></td>
<td>AED</td>
<td>3</td>
<td>Art Education</td>
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<td>Theoretical / practical methods of teaching multi-age visual arts. Integration of artistic and educational ideas into creative programs as a continuum of issues/skills for the developing art educator with mentorship by master teachers.</td>
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<tr>
<td>Spring 2021</td>
<td>REL3310</td>
<td>3310</td>
<td>Introduction to Islam</td>
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<td></td>
<td>REL</td>
<td>3</td>
<td>Religion</td>
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<td></td>
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<td>Origin and development of Islam, including contemporary issues.</td>
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<td>Spring 2021</td>
<td>AVI2002</td>
<td>2002</td>
<td>Private Pilot Flight Lab</td>
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<td></td>
<td>AVI</td>
<td>2</td>
<td>Aviation</td>
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<td>Aeronautical knowledge and experience. Develop the flight proficiency necessary to meet the requirements for a private pilot certificate.</td>
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<tr>
<td>Spring 2021</td>
<td>PHL5020</td>
<td>5020</td>
<td>Medieval Philosophy</td>
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<td>PHL</td>
<td>3</td>
<td>Philosophy</td>
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<td>History of philosophy from Augustine to Ockham. Topics vary.</td>
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<tr>
<td>Spring 2021</td>
<td>ISE3212</td>
<td>3212</td>
<td>Human Biomechanics II</td>
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<td></td>
<td>ISE</td>
<td>3</td>
<td>Industrial &amp; Systems Engr</td>
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<td>Linear and angular kinematics and kinetics applied to human performance. Other topics include human systems analysis with work-energy methods and injury biomechanics utilizing impulse-momentum methods.</td>
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<tr>
<td>Spring 2021</td>
<td>BMS8750</td>
<td>8750</td>
<td>Neuroscience &amp; Physiology</td>
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<td></td>
<td>BMS</td>
<td>3</td>
<td>Biomedical Sciences</td>
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<td>In-depth coverage of cellular neuroscience with an emphasis on physiological concepts. Subjects include nervous system development, generation of ion gradients, ionic basis of the action potential, synaptic transmission and ion channels.</td>
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<tr>
<td>Spring 2021</td>
<td>LDR7050</td>
<td>7050</td>
<td>Moral Leadership</td>
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<td>LDR</td>
<td>3</td>
<td>Leadership</td>
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<td>This course focuses on the foundations of moral leadership including ethics, social justice and authenticity.</td>
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<tr>
<td>Spring 2021</td>
<td>ENG3530</td>
<td>3530</td>
<td>Young Adult Literature</td>
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<td></td>
<td>ENG</td>
<td>3</td>
<td>English</td>
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<td>Introduction to various genres of young adult literature with an emphasis on the selection and analysis of books for adolescents.</td>
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<tr>
<td>Spring 2021</td>
<td>PSY4420</td>
<td>4420</td>
<td>Organizational Psych Cap</td>
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<td></td>
<td>PSY</td>
<td>3</td>
<td>Psychology</td>
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<td>Communication-intensive seminar integrating knowledge on organizational psychology. Organizational psychology focuses on how individuals function within an organization. Topics include job satisfaction, group dynamics, and motivation. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>EES2250L</td>
<td>2550L</td>
<td>Earth History Lab</td>
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<td>EES</td>
<td>0</td>
<td>Earth &amp; Environmental Sciences</td>
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<td>Required laboratory for EES 2550.</td>
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<tr>
<td>Spring 2021</td>
<td>BME4550</td>
<td>4550</td>
<td>Bioinstrumentation</td>
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<td></td>
<td>BME</td>
<td>4</td>
<td>Biomedical Engineering</td>
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<td>Various electrodes, transducers, chemical sensors, special circuits, devices and methods for measuring biological signals and variables; therapeutic and prosthetic devices; electrical safety.</td>
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<td>Course Code</td>
<td>Credits</td>
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<td>Prerequisites</td>
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<td>EDL8530</td>
<td>8530</td>
<td>Advanced Ed Statistics</td>
<td>EDL</td>
<td>Multivariate analysis including analysis of variance-factorial designs, repeated measures, analysis of covariance, multiple analysis of variance, multiple regression, and nonparametric techniques.</td>
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<tr>
<td>ED6950</td>
<td>6950</td>
<td>Cont Sem: AYA/Int Math</td>
<td>ED</td>
<td>Seminar accompanying Adolescent and Young Adult Internship focusing on pedagogical content knowledge in Integrated Mathematics, assessment of the National Council of Teachers of Mathematics (NCTM) standards and the completion of the professional portfolio.</td>
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<tr>
<td>FAS2400</td>
<td>2400</td>
<td>Food Microbiology</td>
<td>FAS</td>
<td>Microorganisms of importance to the food industry: their characteristics, utilization and control.</td>
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<tr>
<td>HST7310</td>
<td>7310</td>
<td>Seminar in Asian History</td>
<td>HST</td>
<td>Examines topics from various periods of Chinese, Japanese, and other Asian histories. Topics vary.</td>
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<tr>
<td>PHS6440</td>
<td>6440</td>
<td>Topics Criminal Justice</td>
<td>PHS</td>
<td>Problems, approaches, and topics in the field of criminal justice and legal studies. Topics vary.</td>
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<tr>
<td>REL3510</td>
<td>3510</td>
<td>Comp. Asian Mysticism</td>
<td>REL</td>
<td>Examination of the religious phenomenon and category of &quot;mysticism&quot; in various Asian traditions including Daoism, Hinduism, and Buddhism (both early Indian Buddhism and Japanese Zen).</td>
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<tr>
<td>TH4370</td>
<td>4370</td>
<td>Musical Actor Seminar</td>
<td>TH</td>
<td>Mastery of professional placement and career development skills in musical theatre and other acting professions. Includes preparation of varied audition selections and promotional materials.</td>
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<tr>
<td>EED3150</td>
<td>3150</td>
<td>Reading Methods P-5</td>
<td>EED</td>
<td>Formal reading instruction in classrooms; strategies and materials for teaching reading to children in grades P-5.</td>
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<tr>
<td>NUR7124</td>
<td>7124</td>
<td>Adv Hlth Asmt Child/Ado</td>
<td>NUR</td>
<td>Application of cognitive processes and psychomotor skills needed for comprehensive health assessment of children and adolescents. Emphasis on health history, physical assessment of children and adolescents. Various instruments will be incorporated to assess growth and development issues.</td>
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<tr>
<td>KNH1360</td>
<td>1360</td>
<td>Karate</td>
<td>KNH</td>
<td>Fundamental skills and knowledge of Karate. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<tr>
<td>BIO7020</td>
<td>7020</td>
<td>Intro Research Biology</td>
<td>BIO</td>
<td>The class will emphasize building talents and skills required to succeed in the Biology M.S. program. Special emphasis will be placed on the components of proposal writing that are required for degree completion. The class will also emphasize how to conduct responsible and ethical research. This will include obtaining the necessary approvals required by the university.</td>
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<tr>
<td>MTH6240</td>
<td>6240</td>
<td>Coding Theory</td>
<td>MTH</td>
<td>An introduction to the essentials of error-correcting codes, including methods for efficient and accurate transfer of information. Perfect and related codes, linear and cyclic codes, BCH codes, Reed-Muller codes, Reed-Solomon codes, Self-dual codes, weight enumerators and bounds.</td>
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<tr>
<td>PTX7200</td>
<td>7200</td>
<td>Biokinetics/Biodynamics</td>
<td>PTX</td>
<td>The course will track the absorption, distribution, inactivation and elimination of drugs and toxins. It will also present the principles of drug/toxic actions which underly their observed effects.</td>
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<tr>
<td>ART4480</td>
<td>4480</td>
<td>Advanced Painting</td>
<td>ART</td>
<td>Continued emphasis on pictorial organization with increased attention to the personal imagery of students. This course has a fee that is non-refundable once the term begins.</td>
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<tr>
<td>BIO6720</td>
<td>6720</td>
<td>Ornithology</td>
<td>BIO</td>
<td>This class is an introduction to the world of birds. We will cover the whole range of scales important to any organism from genetics that underlie evolution and phylogeny to global ecology and conservation. You will be introduced to diversity, form and function, physiology, behavior, life history, ecology and conservation of birds. Lectures are paired with labs that add hands on experience in bird research. We will work on bird identification by sound and sight, and study design.</td>
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<tr>
<td>Semester</td>
<td>Code</td>
<td>Title</td>
<td>Department</td>
<td>Course Type</td>
<td>Credits</td>
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<tr>
<td>Spring 21</td>
<td>FR3210</td>
<td>Writing in French</td>
<td>FR</td>
<td>Lecture</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>KNH1420A</td>
<td>Orienteering/Land Navigation</td>
<td>KNH</td>
<td>Lab</td>
<td>1</td>
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<tr>
<td>Spring 21</td>
<td>HED4560</td>
<td>Sem Pub Health Ed</td>
<td>HED</td>
<td>Lab</td>
<td>2</td>
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<tr>
<td>Spring 21</td>
<td>EE7810</td>
<td>Embedded Systems</td>
<td>EE</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>EDT4700</td>
<td>Workshop Ed Tech</td>
<td>EDT</td>
<td>Lecture</td>
<td>1</td>
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<tr>
<td>Spring 21</td>
<td>GER5510</td>
<td>German Culture and Civil</td>
<td>GER</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>MUE4990</td>
<td>Collegiate Chorale</td>
<td>MUE</td>
<td>Lecture/Lab Combination</td>
<td>1</td>
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<tr>
<td>Spring 21</td>
<td>PLS4340</td>
<td>Political Leadership</td>
<td>PLS</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>JPN2010</td>
<td>Intermediate Japanese 1</td>
<td>JPN</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>BIO4750L</td>
<td>Ichthyology Lab</td>
<td>BIO</td>
<td>Lab</td>
<td>0</td>
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<tr>
<td>Spring 21</td>
<td>BME4703R</td>
<td>Medical Imaging Recitation</td>
<td>BME</td>
<td>Recitation</td>
<td>0.5</td>
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<tr>
<td>Spring 21</td>
<td>MBA5400</td>
<td>Survey of Law</td>
<td>MBA</td>
<td>Lecture</td>
<td>1.5</td>
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<tr>
<td>Spring 21</td>
<td>RST2810</td>
<td>Regional Studies L Amer</td>
<td>RST</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>ART3040</td>
<td>Studies in Art History</td>
<td>ART</td>
<td>Lecture</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>ATH6600</td>
<td>African Oral Traditions</td>
<td>ATH</td>
<td>Lecture</td>
<td>3</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>BIO3700</td>
<td>Bioethics</td>
<td>BIO</td>
<td>Lecture</td>
<td>3</td>
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<tr>
<td>Spring 21</td>
<td>BME3511</td>
<td>Bioelectronics I</td>
<td>BME</td>
<td>Lecture</td>
<td>4</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credit Hours</td>
<td>Course Title</td>
<td>Instructor Information</td>
<td>Type</td>
<td>Prerequisite(s)</td>
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<td>Spring 2021</td>
<td>LE1020</td>
<td>1020</td>
<td>Intro to Criminal Law</td>
<td>LE Law Enforcement 3 Rationale and legal foundations of legal procedures.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>BIO3000</td>
<td>8000</td>
<td>Graduate Seminar</td>
<td>BIO Biology 1 Topics vary but will include extensive discussion of primary, research literature.</td>
<td>GR</td>
<td>SE Seminar</td>
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<tr>
<td>Spring 2021</td>
<td>ME4160</td>
<td>4160</td>
<td>Advanced CAD</td>
<td>ME Mechanical and Materials Engr 3 Advanced course in computer-aided design reinforces and augments the fundamentals of technical blue-print reading, technical sketching, mechanical drawing, computer-aided design (CAD) of parts, assemblies, and engineering drawings, modeling and prototyping, and computer-assisted analysis. Department Managed Prerequisite(s): Undergraduate level ME 2020 Minimum Grade of D and Undergraduate level ME 2210 Minimum Grade of D and Undergraduate level ME 3120 Minimum Grade of D&lt;br&gt;</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>REL5900</td>
<td>5900</td>
<td>Topics in Phil of Relig</td>
<td>REL Religion 3 Examination of selected topics related to the philosophy of religion.</td>
<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>FIN7500</td>
<td>7500</td>
<td>Fin Mgt Health Care Org</td>
<td>FIN Finance 3 Overview of the financial management function in health care organizations. Topics include budgeting, control, capital expenditure analysis, and rate settings.</td>
<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PLS6890</td>
<td>6890</td>
<td>Foreign Service Seminar</td>
<td>PLS Political Science 1 Learn about foreign service and prepare for the U.S. foreign service exam. Will review components of the exam, learn about the exam process and available jobs, and practice interviewing and other skills necessary to pass the exam.</td>
<td>GR</td>
<td>SE Seminar</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>BIO4760</td>
<td>4760</td>
<td>Hum Parasites &amp; Mycology</td>
<td>BIO Biology 3 Surveys parasites of humans worldwide with emphasis on those that occur in North and Central America and Europe. Develops a working knowledge of the anatomy, life cycle and epidemiology of each parasite covered. Compares pathogenic and opportunistic fungal infections. The epidemiology, transmission, symptoms of human mycoses and identification of pathogenic fungal infections and the available treatments.</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9972</td>
<td>9972</td>
<td>Practicum II</td>
<td>PSI Professional Psychology 1 Field experience supervised by a licensed psychologist.</td>
<td>GR</td>
<td>IS Independent Study</td>
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<tr>
<td>Spring 2021</td>
<td>PXS8060</td>
<td>8060</td>
<td>Six Sigma, Green Belt</td>
<td>PXS Pharmacology/Toxicology 3 This course is an introduction to the tools and techniques of the lean six sigma philosophy of management that focuses on eliminating defects through practices that emphasize understanding, measuring, and improving processes</td>
<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>PSY2120</td>
<td>2120</td>
<td>Human Factors and Design</td>
<td>PSY Psychology 3 Applies human behavior, abilities, limitations, and other characteristics to the design and evaluation of products, systems, jobs, tools, and environments.</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EDL9880</td>
<td>9880</td>
<td>Research &amp; Educ Leader</td>
<td>EDL Educational Leadership 3 Practical applications and issues in research; research design and methodology, sampling techniques, instrument development, proposal writing, and the application of skills through a research project.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>LEP0560</td>
<td>0560</td>
<td>American Culture and Com</td>
<td>LEP LEAP 0 This course focuses on developing the fluency and communication skills of intermediate to advanced non-native English speakers in common everyday settings. Students will improve their understanding of American culture by communicating in individual and group discussions, preparing and giving presentations, and by engaging with a variety of guest speakers. Cultural themes covered in the course will include American traditions, values, and behavior in the workplace and informal social settings.</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MIS7400</td>
<td>7400</td>
<td>Outsourcing Partnerships</td>
<td>MIS Management Information Systems 3 This course introduces the fundamentals of outsourcing information technology and business process activities. The course incorporates the outsourcing lifecycle including identifying needs, mapping activities and processes, establishing metrics and service levels, crafting the statement of work and contract, identifying and selecting vendors, conducting negotiations and finalizing contracts, managing and governing outsourcing relationships, and monitoring services and vendor performance. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>LL Lecture/Lab Combination</td>
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<tr>
<td>Spring 2021</td>
<td>FIN3240</td>
<td>3240</td>
<td>Real Estate Prin&amp;Pract</td>
<td>FIN Finance 3 Introduction to the principles and practices of real estate. Topics include the real estate profession and industry, real estate contracts, market analysis, valuation approaches, financing techniques, investment analysis, and home ownership. Successful completion of this course meets part of the licensing requirements for real estate salespeople in Ohio.</td>
<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>EC4780</td>
<td>4780</td>
<td>Hon: Ind Study Economics</td>
<td>EC Economics 3 Research in economics for fulfillment of the Honors Program project requirement.</td>
<td>UG</td>
<td>IS Independent Study</td>
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<tr>
<td>Spring 2021</td>
<td>SOC3620</td>
<td>3620</td>
<td>Race and Ethnicity</td>
<td>SOC Sociology 3 Study of intergroup, racial, and ethnic group relations including the processes and consequences of conflict, prejudice, and discrimination.</td>
<td>UG</td>
<td>LE Lecture</td>
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<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
<td>Level</td>
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<td>Spring 2021</td>
<td>CEG4322</td>
<td>VLSI Design</td>
<td>CEG</td>
<td>4322</td>
<td>Introduction to VLSI system and subsystem design. Topics include CMOS devices and circuit design techniques, basic building blocks for CMOS design, fabrication processing and design rules, chip planning and layout, basic system subcomponents (adders, subtractors, ALUs, and others), system timing and power dissipation, simulation for VLSI design, and signal processing with VLSI.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4830</td>
<td>Statistical Mechanics</td>
<td>PHY</td>
<td>4830</td>
<td>Introduction to microscopic and macroscopic physical systems developed from concepts of statistical physics. Applications to classical and quantum systems. Theories of phase transitions, critical phenomena and fluctuations.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EES2510</td>
<td>Earth Systems</td>
<td>EES</td>
<td>2510</td>
<td>Comprehensive treatment of earth materials and the external and internal geologic processes that shape the earth. Water systems are also discussed.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EGR8950</td>
<td>Dissertation</td>
<td>EGR</td>
<td>8950</td>
<td>Graded pass/unsatisfactory.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CL4720</td>
<td>Advanced Microbiology</td>
<td>CL</td>
<td>4720</td>
<td>Characteristics, pathophysiological mechanisms and identification of chyamidia, fungi, viruses and other organisms and the methods used to diagnose and treat related diseases.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EDS6095</td>
<td>Pract I Dyslexia Mthd&amp;Intrvnt</td>
<td>EDS</td>
<td>6095</td>
<td>Administration and interpretation of assessments to plan, implement, and communicate dyslexia remediation in a professional setting. Write professional case study integrating assessment and tutoring data. Required: 30 hours field experience required.</td>
<td>GR</td>
<td>PR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HIST7700</td>
<td>Research in Local Hist</td>
<td>HST</td>
<td>7700</td>
<td>Defines and discusses the origin and development of local history. Identification, location and use of primary and secondary sources on a variety of local history topics.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7370</td>
<td>Thermodynamic Biomedical Scs</td>
<td>BMS</td>
<td>7370</td>
<td>Fundamentals of chemical thermodynamics; first, second, and third laws; applications to solutions.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES1220</td>
<td>IMT Leadership Lab</td>
<td>AES</td>
<td>1220</td>
<td>Air Force Reserve Officer Training Corps training. Application of Air Force tactics, techniques, and procedures in a cadet-led, cadre-supervised lab. Mandatory Leadership Lab and two weekly physical training sessions.</td>
<td>UG</td>
<td>LB</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4350</td>
<td>Mechanics of Viscous Fluids</td>
<td>ME</td>
<td>4350</td>
<td>This course will study how energy can be transformed from one form to another. The basic forms between which energy will be converted are mechanical, thermal, chemical, nuclear, and electrical. To demonstrate the conversion of energy from one form to another, the following types of devices and fuels will be studied: electric generators, MHID generators, wind turbines, ocean turbines, geothermal systems, fossil fuels, biofuels, and nuclear reactors.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LDR7090</td>
<td>Org. Intent &amp; Sustainab</td>
<td>LDR</td>
<td>7090</td>
<td>This course focuses on theoretical and practical models for understanding international and sustainable organizational development. Central to this focus is the understanding of the relationships of both technical and adaptive leadership to organizational outcomes.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS4460</td>
<td>Medieval &amp; Renaissance Music</td>
<td>MUS</td>
<td>4460</td>
<td>Study of music and critical analysis of representative works from major composers of Medieval and Renaissance music.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EE3260</td>
<td>Random Signals and Noise</td>
<td>EE</td>
<td>3260</td>
<td>Practical introduction to random events, characterization of stochastic signals, first and second order moment descriptions of random processes, and input/output descriptions of random signals and noise in linear systems.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>CNL7270</td>
<td>Coun Life-Span Develop</td>
<td>CNL</td>
<td>7270</td>
<td>Developmental factors influencing the behavior of individuals across the life-span and the unique counseling strategies that are employed.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>FR5610</td>
<td>French Phonetics</td>
<td>FR</td>
<td>5610</td>
<td>Pronunciation, diction, rhythm, and intonation. Transcription exercises and oral production. Taught in French.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>PSY6310</td>
<td>Clinical Psychology Cap</td>
<td>PSY</td>
<td>6310</td>
<td>Communication-intensive seminar integrating knowledge within Clinical Psychology.</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI9220</td>
<td>Diversity Integration III</td>
<td>PSI</td>
<td>9220</td>
<td>This is the third (capstone) course in a series of three diversity courses on the integration of multiple identities in professional practice. Students are expected to demonstrate diversity competence via reflective learning. The purpose of the course is to help students become more confident in using the competencies that s/he has acquired as a result of diversity courses and clinical training.</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>Spring 2021</td>
<td>EDS6270</td>
<td>Practicum: PK SP NEEDS</td>
<td>EDS</td>
<td>6270</td>
<td>Educators with prior teaching license, under the direct supervision of an experienced Intervention Specialist, are assigned to a school for field based experience in preK special education classroom.</td>
<td>GR</td>
<td>IN</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Discipline</td>
<td>Prerequisites</td>
<td>Level</td>
<td>Type</td>
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<td>Practicum</td>
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<td>experiences and on-site seminars</td>
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<td>under the direction of instructor</td>
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<td>and site staff.</td>
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<td>Spring 2021</td>
<td></td>
<td>Advanced work in classical ballet</td>
<td>DAN</td>
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<td>Studio</td>
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<td>technique stressing the development</td>
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<td>of musicality and virtuosity.</td>
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<td>Spring 2021</td>
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<td>Topics vary.</td>
<td>EDT</td>
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<td>Spring 2021</td>
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<td>This course expands the Early</td>
<td>ED</td>
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<td>Lecture</td>
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<td>Childhood educator's understanding</td>
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<td>of the development of the young child</td>
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<td>pedagogical strategies and practices</td>
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<td>for effective teaching and learning.</td>
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<tr>
<td>Spring 2021</td>
<td></td>
<td>Chemistry of various food</td>
<td>FAS</td>
<td></td>
<td>Lecture</td>
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<td>components, and methods of analysis.</td>
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<tr>
<td>Term</td>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>Spring 2021</td>
<td>ATR7600</td>
<td>Neuroscience in Athletic Trng</td>
<td>3</td>
<td>AL</td>
<td>Development, configuration, physical and mental functions, and pathological deficits of the peripheral and central nervous systems. Stroke rehabilitation, neurological deficits, neuralgia, advanced concussion rehabilitation, and concussion laws as they apply to athletic training.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I4750</td>
<td>Pathogenic Mechanisms</td>
<td>4</td>
<td>MU</td>
<td>Human-microbial pathogen interactions, emphasizing the molecular basis of the pathogenic mechanisms. Complexities of interactions between microbes and their human hosts.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM5210R</td>
<td>Adv Inorg Syn &amp; Charact Rec</td>
<td>0</td>
<td>CH</td>
<td>Required recitation for CHM 5210.</td>
<td>GR</td>
<td>RE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2690</td>
<td>Ag Science Topics</td>
<td>1</td>
<td>FAS</td>
<td>Focused study in an area of interest in agricultural science.</td>
<td>UG</td>
<td>LL</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1300</td>
<td>Data Science for Everyone</td>
<td>4</td>
<td>CS</td>
<td>An introduction to data science, the algorithms and processes for preparing and analyzing data, generating predictions, and extracting relationships from data. Present fundamentals of decision analysis, data mining, and machine learning.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7570</td>
<td>Student Assessment</td>
<td>3</td>
<td>EDL</td>
<td>Intensive study of formative and summative methods used by teachers to assess student performance and modify or differentiate instruction to meet student needs.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7115</td>
<td>Independent Study</td>
<td>1</td>
<td>NUR</td>
<td>Independent study of selected topic with guidance from faculty.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI3400</td>
<td>Linguistics of ASL</td>
<td>3</td>
<td>SLI</td>
<td>Linguistic analysis of American Sign Language and spoken languages. Includes the study of phonology, morphology, syntax, semantics and other linguistic topics.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6870</td>
<td>Intro Intel Cont Sys</td>
<td>3</td>
<td>CEG</td>
<td>Foundations of fuzzy set theory, system modeling using fuzzy rules, structure of fuzzy controllers and PID fuzzy controller design. Also included are neural network foundations, single layered/multi-layered perceptions, learning rules, basics of adaptive controls and adaptive neural control.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM2110</td>
<td>Organic Chemistry I</td>
<td>3</td>
<td>CHM</td>
<td>Principles, theories, and applications of the chemistry of carbon compounds.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SCM7990</td>
<td>SCM Capstone Project</td>
<td>1</td>
<td>SCM</td>
<td>Student completes a comprehensive supply chain management project either individually or in a small team. The objectives of the project are to (a) develop a feasible solution for a significant business problem in the supply chain of the sponsoring organization; (b) demonstrate how the solution provides value to the sponsoring organization; and (c) provide a review of relevant best practice and research in the field of supply chain management related to the topic of the project. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
<td>PR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE4510</td>
<td>Comp Appl in ISE</td>
<td>1</td>
<td>ISE</td>
<td>Provides students with an overview for designing and implementing ISE-focused solutions using R. Of interest are applications of operations research, specifically of probabilities, inventory models, simulation and optimization, forecasting, data analytics, and decision support system (GUI/HTML interface).</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6540</td>
<td>VLSI Design</td>
<td>3</td>
<td>EE</td>
<td>(Also listed as CEG 654.) Introduction to VLSI system design. Topics include CMOS devices and circuit design techniques, basic building blocks for CMOS design, fabrication processing and design rules, chip planning and layout, system timing and power dissipation, simulation for VLSI design, and signal processing with VLSI.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT4920</td>
<td>Undergrad Statistics Sem</td>
<td>3</td>
<td>STT</td>
<td>Detailed study of a single statistics topic chosen by the student with the approval of the instructor. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DEV0415</td>
<td>Fradm Ele Math Cnpt for Tchr</td>
<td>2</td>
<td>DEV</td>
<td>The course includes a study of number systems and place value; concepts and algorithms for the four operations; representations for operations on whole numbers, fractions, rational numbers, and decimal numbers. Includes an introduction to geometry of angles, lines, circles, and polygons. This course supports future early and middle childhood educators as they complete MTH 2415. This course is required as a co-requisite for those students who do not have at least an MPL of 23.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7920</td>
<td>MEHE Team Project II</td>
<td>3</td>
<td>IHE</td>
<td>Second semester of team project for Master in Engineering Innovation and Entrepreneurship program. Students work in teams to support the development of a new technology-based organization in concert with local businesses, researchers, inventors and entrepreneurial resources. Students will consider factors including technology, customers, feasibility, competition, financing and cost. Department Managed Prerequisite(s): Graduate level IHE 7910 Minimum Grade of D or Graduate level EGR 7910 Minimum Grade of D</td>
<td>GR</td>
<td>PR</td>
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<tr>
<td>Semester</td>
<td>Code</td>
<td>Credits</td>
<td>Title</td>
<td>Prerequisites</td>
<td>Degree Type</td>
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<tr>
<td>Spring 21</td>
<td>MIS4400</td>
<td>4.00</td>
<td>IS Strat Mgt and Acq MANAGEMENT INFORMATION SYSTEMS 3</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>SOC4911</td>
<td>4.91</td>
<td>Intensive Alcohol Educ Prg SOC SOCIOLOGY 1</td>
<td>Observation and participation in intensive alcohol education program which presents individuals with factual material about the effects of substance abuse.</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>UH2020</td>
<td>2.02</td>
<td>Studies Social Sciences UH University Honors 3</td>
<td>Explores the social sciences comparatively, stressing similarities and differences in themes, methods, materials, theoretical constructs, and problems. Focuses on such topics as people and groups or institutions and bureaucracies. Integrated Writing course.</td>
<td>UG</td>
<td>Seminar</td>
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</tr>
<tr>
<td>Spring 21</td>
<td>ANT7890</td>
<td>7.89</td>
<td>Continuing Registration ANT ANATOMY 1</td>
<td>Continuing Registration</td>
<td>GR</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>RH3620</td>
<td>3.62</td>
<td>Drug &amp; Alcohol Abuse RHB REHABILITATION 3</td>
<td>Basic concepts, social policy, and approaches related to alcohol and drug use including the addiction process, costs of abuse to the individual, family, and society, and successful approaches to dealing with abuse.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ED6170</td>
<td>6.17</td>
<td>Midle Lvl Inq &amp; Act Rsch ED EDUCATION 3</td>
<td>Course provides an introduction to teacher-based action research. Students will learn content related to: types of research, types of data, research methodologies, data analyses and data interpretation within the context of education.</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>KNH3500</td>
<td>3.50</td>
<td>Tech &amp; Emergency Mgmt KNH KINESIOLOGY &amp; HEALTH 3</td>
<td>Explores technology applications of emergency management.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>NEU2000</td>
<td>2.00</td>
<td>Intro Neuro Prog Majors NEU NEUROSCIENCE 1</td>
<td>Undergraduate neuroscience majors will learn about various resources and expectations that will aid their academic and future career success. Students will also be introduced to the neuroscience community at Wright State University.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>EDS6195</td>
<td>6.19</td>
<td>Pract II Dyslexia Mhd&amp;Instrmnt EDS EDUCATION - Special Education 1</td>
<td>Use assessment data to plan and implement dyslexia remediation in a professional setting. Write professional case study integrating assessment and tutoring data. Required: 30 hours field experience required.</td>
<td>GR</td>
<td>Practicum</td>
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<tr>
<td>Spring 21</td>
<td>EGR6610</td>
<td>6.61</td>
<td>Clinical Engr Dev World EGR ENGINEERING 3</td>
<td>Students will be exposed to the culture of a developing country; learn how to live and interact with the local people; gain an appreciation for a culture different from their own and of the limited technical resources of educational and healthcare facilities in a developing country; learn how to install and repair medical and other technical equipment with simple tools. Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EDL9740</td>
<td>9.74</td>
<td>Ldr, Law, and Spec Pop EDL EDUCATIONAL LEADERSHIP 3</td>
<td>Emphasis will be on legal issues for special populations, including emerging trends on policies and procedures for exceptional learners. Laws that affect program administration will be addressed.</td>
<td>GR</td>
<td>Seminar</td>
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<tr>
<td>Spring 21</td>
<td>EES4540L</td>
<td>4.54</td>
<td>Subsurface Fluid Flow Lab EES EARTH &amp; ENVIRONMENTAL SCIENCES 0</td>
<td>Required laboratory for EES 4540.</td>
<td>UG</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>Spring 21</td>
<td>CEG4260</td>
<td>4.26</td>
<td>Matrix Computations CEG COMPUTER ENGINEERING 3</td>
<td>Numerical linear algebra survey using high-level computing tools. Topics include linear equations, matrix factorizations, eigenvalue problems, least squares, applications of singular value decompositions, and iterative methods for large sparse matrices. Emphasizes conditioning of problems and accuracy and stability of algorithms.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>DMV5010</td>
<td>5.01</td>
<td>DMV Registration DMV DMV CONSORTIUM 0.5</td>
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<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>SOC4410</td>
<td>4.41</td>
<td>Applications Rsch Mhd SOC SOCIOLOGY 3</td>
<td>Advanced social research techniques. Students design and carry out a full-scale research project within a seminar-like class setting. Integrated Writing course.</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>KNH6890</td>
<td>6.89</td>
<td>Wrkshp in Health, PE&amp;Rec KNH KINESIOLOGY &amp; HEALTH 1</td>
<td>Intensive study of content, curriculum, method, or materials designed to meet the needs of pre-service and in-service professionals in physical education, and recreation. Titles vary.</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>EES5700</td>
<td>5.70</td>
<td>HAZ/WOPPER Refresher EES EARTH &amp; ENVIRONMENTAL SCIENCES 1</td>
<td>Refresher training covering management of hazardous materials and emergency response in the workplace or at spills or hazardous waste sites. This course satisfies the requirements for 8 hours of refresher training specified under OSHA 29 CFR 1910.120.</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ENG6820</td>
<td>6.82</td>
<td>Adv Poetry Wrtg Seminar ENG ENGLISH 3</td>
<td>Advanced practice in writing and revising poems, refining craft and style, with the aim of producing poetry of superior merit; group discussion of manuscripts; and reading and discussion of modern poetry and poetics.</td>
<td>GR</td>
<td>Seminar</td>
<td></td>
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<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td>Office</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>Spring 2021</td>
<td>PHY4560</td>
<td>4560</td>
<td>Int. Phy Sci &amp; Math II</td>
<td>PHY</td>
<td>Physics</td>
<td>4</td>
<td>Integration of physics and mathematics, fulfilling science and math standards, physics education issues, inquiry teaching practices, and assessment. Applications of these to electricity, magnetism, waves, and optics.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT3900</td>
<td>3900</td>
<td>App Managerial Skill&amp;Character</td>
<td>MGT</td>
<td>Management</td>
<td>3</td>
<td>An advanced introduction to the competence, character, and commitment required to achieve excellence in organizations. An opportunity for students to reinterpret their goals and identify steps that can be taken while in college toward success and well-being.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM5520L</td>
<td>5520L</td>
<td>Physical Chem Lab II</td>
<td>CHM</td>
<td>Chemistry</td>
<td>2</td>
<td>Experimental methods of physical chemistry.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3530L</td>
<td>3530L</td>
<td>Social Psychology Mth Lab</td>
<td>PSY</td>
<td>Psychology</td>
<td>0</td>
<td>Required laboratory for PSY 3530. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0230</td>
<td>0230</td>
<td>Grammar - Level 2</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Grammar for low-intermediate/intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3510</td>
<td>3510</td>
<td>Social Psychology</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Current theories and experimental findings examining the situational and social causes underlying people's attitudes, beliefs, and behaviors.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE3540</td>
<td>3540</td>
<td>Intro to Comp for ISE</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>3</td>
<td>Introduction to the development of automated data analysis tools built on existing user-interface and computational models, specifically the Visual Basic for Applications (VBA) language in the Microsoft Excel environment. Applications of linear programming, discrete event simulation, and operations research methods in decision support roles are discussed.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PTX7004</td>
<td>7004</td>
<td>MD/MS Journal Club</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>2</td>
<td>This course was developed to give the medical students in the Clinical Investigation M.S. track the opportunity to become familiar with clinical research. This course includes hands-on training at the Pharmacology Translational Unit, WSP, as well as in-depth understandings of clinical research in the current literature.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW6800</td>
<td>6800</td>
<td>Gerontology Practicum</td>
<td>SW</td>
<td>Social Work</td>
<td>3</td>
<td>Supervised learning under direction of the Gerontology Certificate Director and staff from a social service agency serving older adults. Department Managed Prerequisite(s): Graduate level SW 6620 Minimum Grade of D or Graduate level SOC 6820 Minimum Grade of D.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ANT3120L</td>
<td>3120L</td>
<td>Human Structure Funct</td>
<td>ANT</td>
<td>Anatomy</td>
<td>0</td>
<td>Required laboratory for ANT 3120.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3140R</td>
<td>3140R</td>
<td>Molecular Bio Lab Rec</td>
<td>BIO</td>
<td>Biology</td>
<td>0</td>
<td>Required recitation for BIO 3140.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SCM7890</td>
<td>7890</td>
<td>Global Logistics &amp; Trade</td>
<td>SCM</td>
<td>Supply Chain Management</td>
<td>3</td>
<td>Explores issues involved in management and design of global supply chain. Topics include trade agreements, quality considerations, total cost calculations, intentional transportation, security issues and third party recourses. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO6440L</td>
<td>6440L</td>
<td>Plant Physiology Lab</td>
<td>BIO</td>
<td>Biology</td>
<td>0</td>
<td>Required laboratory for BIO 6440.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EED3750</td>
<td>3750</td>
<td>Writing Methods P-5</td>
<td>EED</td>
<td>Elementary Education P-5</td>
<td>3</td>
<td>The study of writing development, writing theory, writing genres, writing assessment, instructional pedagogy, and materials in elementary language arts program development, and the integration of literature and language arts across P-5 grade curricula. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT7000</td>
<td>7000</td>
<td>Entry Seminar Ed Tech</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>1</td>
<td>Introductory seminar for educational technology and library media programs. Students should take this class before or concurrently with their first educational technology or library media courses.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC2000</td>
<td>2000</td>
<td>Economic Life</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Basic economic concepts such as resource allocation, costs, supply, demand, and public goods. Topics include American capitalism, market failures, unemployment, inflation, and taxation. Basic economic principles applied to modern society and the challenges presented by a globalized economy. Credit will not be given for EC 2000 Economic Life for students who have already successfully completed EC 2040 and EC 2050. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH2290</td>
<td>2290</td>
<td>Fabric Dye Modification</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Basic techniques of dyeing and modifying fabric. Includes aging and distressing of costumes.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>UVC1010</td>
<td>1010</td>
<td>First Year Seminar</td>
<td>UVC</td>
<td>University College</td>
<td>1</td>
<td>Students experience opportunities to build their collegiate identity by clarifying their values while engaging the campus community and experiencing diversity. Students also explore learning strategies to set goals, plan their courses, develop their communication skills, and explore careers while learning to achieve overall health and wellness.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3720</td>
<td>3720</td>
<td>Policing in Society</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>History and theories of policing and review of the role and function of police.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Instructor(s)</td>
<td>Degree</td>
<td>Delivery</td>
<td>Location</td>
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<tr>
<td>FIN4140</td>
<td>Real Estate Law</td>
<td>4140</td>
<td>Includes all areas of law commonly concerned with the typical real estate practitioner and investor-consumer. Topics include the law of agency as applied to real estate brokers and salespeople, law of fixtures, estates (including leases), conveyancing of real estate, real estate managers, zoning, cooperatives, condominiums, and license laws of Ohio. Successful completion of this course meets part of the licensing requirements for real estate salespeople in Ohio.</td>
<td>UG LE</td>
<td>Lecture</td>
<td></td>
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</tr>
<tr>
<td>EDL9700</td>
<td>Practicum I: Supt</td>
<td>9700</td>
<td>The practicum provides significant opportunities for candidates to synthesize and apply the knowledge and skills identified in the district-level standards through substantial, sustained, standards-based work in real settings.</td>
<td>GR IN</td>
<td>Internship</td>
<td></td>
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<tr>
<td>FR6120</td>
<td>FR Instruc Practicum II</td>
<td>6120</td>
<td>Peer teachers observe elementary and/or intermediate level classes, continuation of practicum from FR 6110.</td>
<td>PR</td>
<td>Practicum</td>
<td></td>
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</tr>
<tr>
<td>EES4410</td>
<td>Phy Geol Nat Hist Ohio</td>
<td>4410</td>
<td>Field trip course examining the landforms, processes, and deposits associated with Pleistocene continental glaciation, as well as subsequent post-glacial terrain modification. The course involves 1 day of lecture/lab and 4 one-day thematic field trips.</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
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</tr>
<tr>
<td>REL3110</td>
<td>Judaism: Faith &amp; People</td>
<td>3110</td>
<td>Judaism as a religious faith and people, with special reference to formative historical, social, ethnic, and cultural factors.</td>
<td>REL</td>
<td>Religion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTX8500</td>
<td>Good Laboratory Practice</td>
<td>8500</td>
<td>GLP regulations are a set of international standards developed to ensure quality and reliability of safety data submitted to regulatory authorities. Overview of standards and principles governing the conduct of pharm/tox studies.</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEG4360</td>
<td>Distrib Computing &amp; Sys</td>
<td>4360</td>
<td>Study of process communication, core distributed algorithms, distributed file systems, cloud computing, and massive scale data-parallel processing.</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td></td>
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</tr>
<tr>
<td>MTH4290</td>
<td>Cryptography Data Secur</td>
<td>4290</td>
<td>Mathematical principles of cryptography and data security. Introduces relevant algebra and number theory. Discusses developments in cryptography, including the data encryption standard (DES), public-key encryption (RSA), cryptographic hash functions, digital signatures, key safeguarding schemes, and cryptographic protocols such as key exchange and entity authentication, identification schemes, electronic elections and digital cash.</td>
<td>MTH</td>
<td>Mathematics</td>
<td></td>
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<tr>
<td>CRT1000</td>
<td>Intro to Corrections</td>
<td>1000</td>
<td>Trends and developments in all elements of a modern correctional system for the treatment of juvenile and adult offenders.</td>
<td>CRT</td>
<td>Corrections</td>
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<tr>
<td>URS6210</td>
<td>Pub. Leadership &amp; Change</td>
<td>6210</td>
<td>Examines the leadership role of the public and nonprofit administrators in formulating programs, policies, and service delivery options. Explores topics such as managing internal and external environments, improving productivity and effectiveness, policy/program creation, and the dynamics of change.</td>
<td>URS</td>
<td>Urban Affairs</td>
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</tr>
<tr>
<td>BMB7650</td>
<td>Comp Tools/Strategy BMS</td>
<td>7650</td>
<td>This is a survey course of modern high-throughput experimental approaches and computational tools used currently in cell and molecular biology, microbiology, and ecology. Students will gain knowledge of the most widely used experimental techniques and will obtain hands on laboratory-type computational experience with key software and strategies. Covered topics include genomics, gene expression profiling, phylogenetic analysis, next-generation sequencing, and biological pathway analysis.</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAN3410</td>
<td>Choreography I</td>
<td>3410</td>
<td>Basic craft of choreography in dance. Particular attention paid to use of various stimuli to create dances as well as the act of improvisation and how it relates to the ongoing process of choreography. Self-evaluation and critical analysis of choreographic works.</td>
<td>DAN</td>
<td>Dance</td>
<td></td>
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</tr>
<tr>
<td>CEG2170</td>
<td>Intro to C Prog for S&amp;E</td>
<td>2170</td>
<td>Basic engineering problem solving using the C programming language. Topics include loops, selection, input/output, files, functions, arrays, complex variables, pointers, structures, and dynamic memory. Students will learn how to approach solving problems in engineering and science; how to develop algorithms, using advanced techniques such as recursion, searching, sorting and linked lists, to solve those problems; and how to implement those algorithms in the C language.</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td></td>
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</tr>
<tr>
<td>GEO4200</td>
<td>Remote Sensing Apps</td>
<td>4200</td>
<td>Application of geographic methodology to social, political and environmental problems utilizing remote sensed images. Development of capability to interpret remote sensed data and complete an analysis of data.</td>
<td>GEO</td>
<td>Geography</td>
<td></td>
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</tr>
<tr>
<td>WGS6800</td>
<td>Selected Subjects</td>
<td>6800</td>
<td>Issues, approaches, and topics in women's studies. Topics vary.</td>
<td>WGS</td>
<td>Women, Gender, and Sexuality</td>
<td></td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3020</td>
<td>3020</td>
<td>Peoples/Cultures So Asia</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>An introduction to the variety of people living in Southern Asia, particularly India, Pakistan, Bangladesh and Sri Lanka. The course will investigate various cultural, environmental, religious, ethnic and national groupings, while attempting to uncover unity behind the great diversity of the subcontinent.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC4300</td>
<td>4300</td>
<td>Intl Migration &amp; Intgrtn</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Examines the dynamics of international migration and immigration, immigrant adaptation and incorporation, and the U.S. response to immigration.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE4010</td>
<td>4010</td>
<td>ECE-Gen Prin/Pract/Learn</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Historical and underlying philosophy of the middle school concept based on the unique nature of pre-adolescents and adolescents. Current instructional and curricular practices are viewed in relation to this philosophy.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MP3350</td>
<td>3350</td>
<td>Screenwriting</td>
<td>MP</td>
<td>Motion Picture</td>
<td>3</td>
<td>Introduction to writing a short screenplay. Students will learn basic storytelling strategies for media production.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4560</td>
<td>4560</td>
<td>Wind Power</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Power in the wind, the wind turbine and its parts, performance of wind turbines, and economics of wind turbines will be presented.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4540</td>
<td>4540</td>
<td>VLSI Design</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Introduction to VLSI system and subsystem design: CMOS devices and circuit design techniques, basic building blocks for CMOS design, fabrication processing and design rules, chip planning and layout, basic system subcomponents (adders, subtractors, ALUs, and others), system timing and power dissipation, simulation for VLSI design, and signal processing with VLSI.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHI3020</td>
<td>3020</td>
<td>Advanced Chinese II</td>
<td>CHI</td>
<td>Chinese</td>
<td>3</td>
<td>Further development of advanced linguistic proficiency and complex conversation skills with emphasis on cultural aspects of communication. Taught in Chinese. If prerequisite not met, contact instructor for permission.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1180</td>
<td>1180</td>
<td>Computer Science I</td>
<td>CS</td>
<td>Computer Science</td>
<td>4</td>
<td>Basic concepts of programming and programming languages. Structured programming, stepwise refinement, and object-oriented development. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ITA2010</td>
<td>2010</td>
<td>Intermediate Italian I</td>
<td>ITA</td>
<td>Italian</td>
<td>3</td>
<td>Continued study of the Italian language. Grammar review, reading, and discussion of selected texts, with practice in speaking and writing the language.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7920</td>
<td>7920</td>
<td>Independent Study in CS</td>
<td>CS</td>
<td>Computer Science</td>
<td>1</td>
<td>Independent study in computer science.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL5770</td>
<td>5770</td>
<td>Letters of Paul</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Literary and historical study of the letters of Paul, aiming to discover when and why they were written and how they fit into the development of the early Jesus movement. Some consideration of the biography of Paul and his influence.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB7010</td>
<td>7010</td>
<td>Selected Topics- Biochem</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>0.5</td>
<td>Special topics in Biochemistry and Molecular Biology covering recent developments in selected faculty member's area of research expertise.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR4850</td>
<td>4850</td>
<td>Teaching MS/HS PE</td>
<td>HPR</td>
<td>Health Phy Educ &amp; Recreation</td>
<td>3</td>
<td>Students apply teaching and management strategies that have been linked to student learning, the design of instructional materials and techniques, and strategies for working with a diversity of learners in middle and high school.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH6700</td>
<td>6700</td>
<td>Dev Ethnological Thought</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>An introduction to the many approaches used in anthropology.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AFS3100</td>
<td>3100</td>
<td>Afr Amer Exp in Ed</td>
<td>AFS</td>
<td>Afr /Afr Amer Studies</td>
<td>3</td>
<td>Explores the diverse experiences of being African American and examines the effect of Blackness on students’ and teachers’ experiences. Facilitates examination of personal biases and effective methods for providing educational access for all.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6560L</td>
<td>6560L</td>
<td>Intro Robotics Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Laboratory supporting EE 6560L. Students will experience hands on learning in lab environment.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7930</td>
<td>7930</td>
<td>Building-Level Leadership</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>3</td>
<td>Developing procedures of administering staff personnel aspects of school operation. Areas of recruitment, selection, induction, appraisal, development, compensation, and motivation are covered.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS3210</td>
<td>3210</td>
<td>City Politics</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Governments and politics of metropolitan regions; government structure and functions; interests and power relations.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Level</td>
<td>Type</td>
<td>Notes</td>
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<tr>
<td>REL2050</td>
<td>2050</td>
<td>What Is Religion?</td>
<td>REL</td>
<td>3</td>
<td></td>
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<tr>
<td>MKT3300</td>
<td>3300</td>
<td>International Marketing</td>
<td>MKT</td>
<td>3</td>
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<tr>
<td>SLI4940</td>
<td>4940</td>
<td>K-12 Education Practicum</td>
<td>SLI</td>
<td>3</td>
<td>Supervised practicum experience in a K-12 educational setting. 150 hours minimum on-site placement hours.</td>
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<tr>
<td>AFS4010</td>
<td>4010</td>
<td>Senior Research Project</td>
<td>AFS</td>
<td>3</td>
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<tr>
<td>PSY2430</td>
<td>2430</td>
<td>Psy Issues in Aging</td>
<td>PSY</td>
<td>3</td>
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<tr>
<td>CS5900</td>
<td>5900</td>
<td>Special Topics in CS</td>
<td>CS</td>
<td>1</td>
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<tr>
<td>CHM5200</td>
<td>5200</td>
<td>Adv Inorganic Chem I</td>
<td>CHM</td>
<td>3</td>
<td>Principles and concepts of inorganic chemistry, including the periodic table, atomic structure, bonding, coordination compounds, and an introduction to group theory.</td>
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<tr>
<td>PHY5510</td>
<td>5510</td>
<td>Advanced Physics Lab - 2</td>
<td>PHY</td>
<td>2</td>
<td>Laboratory projects designed to introduce the participant to modern physics laboratory techniques by doing standard measurements or reproducing historic experiments.</td>
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<tr>
<td>PLS3260</td>
<td>3260</td>
<td>Black Women and Politics</td>
<td>PLS</td>
<td>3</td>
<td>Role of race and gender in the political activities of black women in the US, Africa, and the diaspora. Integrated Writing course.</td>
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<tr>
<td>ME2210</td>
<td>2210</td>
<td>Dynamics</td>
<td>ME</td>
<td>3</td>
<td>Vector treatment of the kinematics and kinetics of particles and rigid bodies, based on Newton's laws and including work-energy and impulse-momentum techniques.</td>
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<tr>
<td>IHE6712</td>
<td>6712</td>
<td>Sim &amp; Stoch Models</td>
<td>IHE</td>
<td>3</td>
<td>Study of quantitative techniques to analyze and predict systems performance. Topics include queuing models, system simulation, model validation, data collection, quantitative analysis of system performance, and system design evaluation.</td>
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<tr>
<td>MUS3120</td>
<td>3120</td>
<td>History of Music II</td>
<td>MUS</td>
<td>3</td>
<td>History of western art music from 1750 to the present. Integrated Writing course.</td>
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<tr>
<td>CS6290</td>
<td>6290</td>
<td>Cryptography Data Secur</td>
<td>CS</td>
<td>3</td>
<td>Mathematical principles of cryptography and data security. Preliminary algebra and number theory will be briefly introduced. Various developments in cryptography will then be discussed, including the data encryption standard (DES), public-key encryption (RSA), cryptographic hash functions, digital signatures, key safeguarding schemes, and cryptographic protocols such as key exchange and entity authentication, identification schemes, electronic elections and digital cash.</td>
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<tr>
<td>EDL9130</td>
<td>9130</td>
<td>Adv Tchr Ldr Seminar</td>
<td>EDL</td>
<td>3</td>
<td>Advanced studies regarding critical topics and current issues relevant to the development of classroom teachers as school leaders.</td>
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<tr>
<td>SW4735</td>
<td>4735</td>
<td>Child Welfare II</td>
<td>SW</td>
<td>3</td>
<td>Addresses the developmental and permanence needs of children in the child welfare system.</td>
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<tr>
<td>HST6100</td>
<td>6100</td>
<td>Early Modern Europe</td>
<td>HST</td>
<td>3</td>
<td>Examines selected problems in European history from the late Middle Ages through the Counter-Reformation. Topics vary.</td>
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<tr>
<td>PLS4200</td>
<td>4200</td>
<td>Politics and the Novel</td>
<td>PLS</td>
<td>3</td>
<td>(Also listed as ENG 3010) Study and critiques of political themes in works of selected 20th century authors, including social roles, activism, political awareness, power, government and conflict at the individual, institutional and international level.</td>
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<tr>
<td>LEP0050</td>
<td>0050</td>
<td>List &amp; Speak - Pre-LEAP</td>
<td>LEP</td>
<td>0</td>
<td>Listening, speaking and pronunciation for low-beginning level ESL students. This course has a fee that is non-refundable once the term begins.</td>
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<tr>
<td>ASM7771</td>
<td>7771</td>
<td>Fund Aerospace Med I</td>
<td>ASM</td>
<td>3</td>
<td>Fundamentals of Aerospace Medicine I is the first in a series of three courses that provide a foundation of basic principles and concepts applicable to the multiple realms encountered in the field of aerospace medicine. Each of the two subsequent courses in the series will build upon the knowledge gained in this initial exposure and further expand and progressively integrate knowledge attained.</td>
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<tr>
<td>Course Title</td>
<td>Type</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
<td>Lab Type</td>
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<tr>
<td>Beg Printmkg: Lithograph</td>
<td>Lecture/Lab</td>
<td>1</td>
<td>Introduction to basic lithographic techniques using stone and/or metal plate. Emphasis on black-and-white printing and aesthetic possibilities of the media. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB Lab</td>
<td></td>
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</tr>
<tr>
<td>PL8670 6170 App Politics and Moot Ct</td>
<td>Lecture/Lab</td>
<td>3</td>
<td>Students will conceptually explore different research methodologies in relation to the scholarship of teaching and learning. Both qualitative and quantitative techniques will be discussed.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASL4020 Communication Variations</td>
<td>Lecture</td>
<td>3</td>
<td>This course provides basic and general principles on animal handling, caring and experimental design. It instructs basic techniques in drug dosing and administration, animal surgery, tissue sample collection.</td>
<td>GR</td>
<td>LL Lecture/Lab Combination</td>
<td></td>
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</tr>
<tr>
<td>PLS8040 Intro Agronomy</td>
<td>Lecture/Lab</td>
<td>3</td>
<td>Emphasizes Biomedical Science's current methods.</td>
<td>UG</td>
<td>LB Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY1060L Astronomy Laboratory</td>
<td>Lecture</td>
<td>1</td>
<td>Students will be introduced to the basics of physics.</td>
<td>UG</td>
<td>LB Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH1060 1060 Music Theory for Actors</td>
<td>Lecture</td>
<td>2</td>
<td>The student will have the ability to apply Kirchhoff's laws, an understanding and ability to apply Thevenin and Norton's theorems, analyze and design circuits with operational amplifiers, analyze 1st and 2nd order circuits, apply linear differential equation techniques, and have an understanding of sinusoidal steady state analysis.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>EE5010 5010 Circuit Analysis System</td>
<td>Lecture</td>
<td>3</td>
<td>Emphasizes Biomedical Science's current methods.</td>
<td>UG</td>
<td>LB Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY7310 7310 Solid State - E&amp;M</td>
<td>Lecture</td>
<td>3</td>
<td>This course provides basic and general principles on animal handling, caring and experimental design. It instructs basic techniques in drug dosing and administration, animal surgery, tissue sample collection.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY8210 8210 Paragrapm in Exp. Psych.</td>
<td>Lecture/Lab</td>
<td>3</td>
<td>The topic of scientific revolutions (as described by Kuhn) and how they apply to experimental psychology is described. Students will learn about the concepts of normal vs. revolutionary science, the rational vs. conventional rules of science and scientific paradigms. Students will analyze paradigmatic shifts occurring in experimental psychology over the past century, including behaviorism, information processing, and ecological approaches to psychology.</td>
<td>GR</td>
<td>SE Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATR4850 4850 Surgical Applications</td>
<td>Lecture/Lab</td>
<td>3</td>
<td>Surgical procedures, rehabilitation protocols and research as they pertain to athletic training. Prepares Athletic Training students to counsel regarding patient treatment options and to research current trends in medical procedures. Integrated Writing course.</td>
<td>GR</td>
<td>SE Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS6600 6600 Sem Comp Politics</td>
<td>Lecture</td>
<td>3</td>
<td>This course provides basic and general principles on animal handling, caring and experimental design. It instructs basic techniques in drug dosing and administration, animal surgery, tissue sample collection.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>GER3830 3830 Applied Elem Ger Instr.</td>
<td>Lecture</td>
<td>1</td>
<td>Students will conceptually explore different research methodologies in relation to the scholarship of teaching and learning. Both qualitative and quantitative techniques will be discussed.</td>
<td>UG</td>
<td>IS Independent Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDL7140 7140 Context of Education</td>
<td>Lecture</td>
<td>3</td>
<td>Emphasizes the evolution of theories and the laws that underlie the free compulsory educational system as well as the organization, control, and support by the public of the educational system.</td>
<td>GR</td>
<td>LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quarter</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
<td>Credits</td>
<td>Time</td>
<td>Level</td>
<td>Internship/Research/Independent Study</td>
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<tr>
<td>Spring 2021</td>
<td>MUS2140</td>
<td>Music in Western Culture</td>
<td>2140</td>
<td>3</td>
<td></td>
<td>UG</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6460</td>
<td>Microwave Eng II</td>
<td>6460</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOM704</td>
<td>Year 3 Medical Study</td>
<td>704</td>
<td>24</td>
<td></td>
<td>MD</td>
<td>Clinical</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4511</td>
<td>Basic Clinical Lab</td>
<td>4511</td>
<td>1</td>
<td></td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART6030</td>
<td>Studies in Drawing</td>
<td>6030</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES1210</td>
<td>Foundations of USAF I</td>
<td>1210</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH2220</td>
<td>Theatre Production</td>
<td>2220</td>
<td>1</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1700A</td>
<td>Tai Chi Kinesiology &amp; Health</td>
<td>1700A</td>
<td>1</td>
<td></td>
<td>UB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3730</td>
<td>Genesis RELigion</td>
<td>3730</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO3700</td>
<td>Regional Geography</td>
<td>3700</td>
<td>3</td>
<td></td>
<td>UB</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GER5210</td>
<td>Writing in German</td>
<td>5210</td>
<td>3</td>
<td></td>
<td>UB</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4190L</td>
<td>Paleobiology Lab</td>
<td>4190L</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO4100</td>
<td>Remote Sensing</td>
<td>4100</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH7160</td>
<td>Numerical Analysis 1</td>
<td>7160</td>
<td>4</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST7450</td>
<td>Seminar Gender History</td>
<td>7450</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS4420</td>
<td>Positive Learning Env</td>
<td>4420</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI3510</td>
<td>ASL Discourse Analysis</td>
<td>3510</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY5220</td>
<td>Optics</td>
<td>5220</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH2200</td>
<td>Disease Detectives</td>
<td>2200</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6740</td>
<td>Mat Sel Failure Analysis</td>
<td>6740</td>
<td>3</td>
<td></td>
<td>GR</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE8930</td>
<td>Non-Disr Resrch in IHE</td>
<td>8930</td>
<td>1</td>
<td></td>
<td>GR</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO3140</td>
<td>3140</td>
<td>Molecular Bio Lab</td>
<td>BIO</td>
<td>Biology</td>
<td>3.5</td>
<td>Concepts pertaining to gene structure, the regulation of gene expression and the genetic structure of populations.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ANT4340</td>
<td>4340</td>
<td>Biological Safety</td>
<td>ANT</td>
<td>Anatomy</td>
<td>2</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS6160</td>
<td>6160</td>
<td>Piano Pedagogy</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>Class offers a historical overview of keyboard pedagogy and examines anthologies, collections, and studies written for piano students at various performance levels.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE7350</td>
<td>7350</td>
<td>Div in EC Classroom</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>3</td>
<td>Examination of sources of individual differences within the early childhood classroom: culture/ethnicity, race, language, wealth, learning style/ability, and gender.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7420L</td>
<td>7420L</td>
<td>Power Electronics II Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Simulation of models of power stages of DC-DC PWM power converters, open-loop performance of power converters, closed loop power converters.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS1021</td>
<td>1021</td>
<td>Intro to Microsoft Access</td>
<td>CS</td>
<td>Computer Science</td>
<td>1</td>
<td>This course focuses on learning MS Access software application using a case study approach where critical thinking and problem solving skills are required.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>WGS5200</td>
<td>5200</td>
<td>Women Mult. Persp.</td>
<td>WGS</td>
<td>Women, Gender, and Sexuality</td>
<td>3</td>
<td>Issues, approaches, and topics in women and gender studies, which may include women's history, politics, religion, or contributions to literature, film, and art. Explores racial, ethnic, cultural, and other differences among women within the U.S. Titles and topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>M&amp;I7310</td>
<td>7310</td>
<td>Virology</td>
<td>M&amp;I</td>
<td>Microbiology &amp; Immunology</td>
<td>3</td>
<td>This course provides an introduction to the field of virology. The course emphasizes the intrinsic properties of viruses that cause human disease and their interaction with cells, multiplication, genetics, and tumor induction.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6590</td>
<td>6590</td>
<td>Assessment Skills for IS</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>3</td>
<td>Administration and interpretation of formal and informal educational assessment instruments and communication of assessment data to parents, students, and colleagues. Fifteen hours of field experience required.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6420</td>
<td>6420</td>
<td>Ethnographic Methods</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Explores the meaning, scope and dilemmas of ethnography using both a hands-on ethnographic project and a wide array of readings.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN3120</td>
<td>3120</td>
<td>Modern Dance III</td>
<td>DAN</td>
<td>Dance</td>
<td>3</td>
<td>Advanced modern technique class for pre-professional dancers. Principles and concepts of Horton technique with continued emphasis on flexibility, strength and coordination.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH2250</td>
<td>2250</td>
<td>Th Graph II Media Color</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Black and white media and basic color theories, materials, and techniques used in designing for the theatre.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7331</td>
<td>7331</td>
<td>Quant Workload Analysis</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Physiological and mathematical methods needed to accomplish a workload analysis as requisite to a system design or a redesign of an ergonomic system.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3900</td>
<td>3900</td>
<td>Topics in Phil of Rel</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Selected topics in the philosophy of religion.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4700</td>
<td>4700</td>
<td>Adv Topics Percept Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on perception. Topics vary. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY3610</td>
<td>3610</td>
<td>Conditioning &amp; Learning</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Introduction to experimental findings and contemporary theories of conditioning, learning, and motivation.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4120L</td>
<td>4120L</td>
<td>Finite Element Analysis Lab</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>0</td>
<td>Required laboratory for ME 4120.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6170</td>
<td>6170</td>
<td>Coastal Processes</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>2</td>
<td>The course is primarily designed for in-service educators. It serves as an introduction to the seashore and ocean system, and the range of possibilities for teaching inquiry-based science that this venue offers. Topics include: the origin of ocean basins, sediment, the chemistry and physics of water, tides, the biology of selected sub-environments and oceans and the Earth system. The course is organized around a four-day field trip and a pre and post trip class meeting.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECO5550</td>
<td>5550</td>
<td>ECO and US History</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>2</td>
<td>This course is designed to link United States historical events and economic concepts. Activities are interactive, reflecting the belief that students learn best through active, highly personalized experiences with economics. Applications of economic understanding to real world situations and context dominate the lessons. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS4510</td>
<td>4510</td>
<td>Piano Literature I</td>
<td>MUS</td>
<td>Music</td>
<td>3</td>
<td>A survey of the literature of the piano and its predecessors--clavichord, harpsichord, and the pianoforte--from the early English Virginal music to the present time.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR3440</td>
<td>3440</td>
<td>Nur Wom &amp; Childbear Fam</td>
<td>NUR</td>
<td>Nursing</td>
<td>1</td>
<td>Focuses on critical reasoning and care of women and expanding families including mothers, fathers, and newborns. Delivery of holistic, family-centered care that reflects understanding of fetal growth and development, physiological/pathophysiological changes of pregnancy, culture, family transitions and reproductive health issues. (2 cr didactic; 2 cr total clinical/lab)</td>
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<tr>
<td>Spring 2021</td>
<td>GR6530</td>
<td>6530</td>
<td>Greek History &amp; Biograph</td>
<td>GR</td>
<td>Greek</td>
<td>3</td>
<td>Herodotus, Thucydides, Xenophon, Polybius, and Plutarch. Topics include methods of composition, influences on historiography from the sophists and philosophers, the development of Greek historical writing, and supplemental evidence from inscriptions and nonliterary sources. Titles vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7600</td>
<td>7600</td>
<td>Trust Networks</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>This course will introduce the fundamental concepts relevant to trust and security, and explore trust management issues in the context of interpersonal, sensor, and social networks.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE4700</td>
<td>4700</td>
<td>Content Seminar: ECE Education - Early Childhood</td>
<td>ECE</td>
<td>Education</td>
<td>2</td>
<td>Reflection on ECE theories, philosophies and content in preparation for entry into the ECE profession.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR2980L</td>
<td>2980L</td>
<td>Special Topics in EGR Lab</td>
<td>EGR</td>
<td>Engineering</td>
<td>0</td>
<td>Required laboratory for EGR 2980.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GR3530</td>
<td>3530</td>
<td>Readings in Greek Poetry</td>
<td>GR</td>
<td>Greek</td>
<td>3</td>
<td>Select readings in Greek epic and lyric poetry. Topics include structure and technique of oral epic, the didactic tradition, lyric and epic meters and diction, and the development of pastoral poetry.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME1110</td>
<td>1110</td>
<td>Fundamentals of BIE</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>1</td>
<td>Introduction to the disciplines of Biomedical, Industrial &amp; Systems and Human Factors Engineering. Provides an overview of how engineers design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy. Consists of lecture classes and computer-based instrumentation lab sessions; includes freshman design workshop and presentation material must be submitted electronically.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC3240</td>
<td>3240</td>
<td>Drug &amp; Alc Intv Workshop</td>
<td>SOC</td>
<td>Sociology</td>
<td>2</td>
<td>Participant observation of the intervention and treatment of drug and alcohol problems including therapy and counseling groups, client/therapist contact, and professionals practicing intervention and confrontation techniques.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO6410</td>
<td>6410</td>
<td>Cartography</td>
<td>GEO</td>
<td>Geography</td>
<td>4</td>
<td>Study of the basic concepts of cartography, including components of maps, coordinate system, spatial projections, and map design. Special emphasis placed on data, computational methods and ethical cartographic practices.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASM7973</td>
<td>7973</td>
<td>Aerospace Research</td>
<td>ASM</td>
<td>Aerospace Medicine</td>
<td>1</td>
<td>Independent research on a topic of aerospace medical relevance culminating with a formal presentation. Additionally, final research reports and presentation material must be submitted electronically.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR2040</td>
<td>2040</td>
<td>Adventure Education</td>
<td>HPR</td>
<td>Health Phy Educ &amp; Recreation</td>
<td>3</td>
<td>Develops knowledge, skills and dispositions to successfully implement Adventure Education curriculum in pre K-12 physical education programs.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS2250</td>
<td>2250</td>
<td>Orchestral Strings Ped.</td>
<td>MUS</td>
<td>Music</td>
<td>1</td>
<td>This course will provide future instrumental music education majors with practical and artistic application, pedagogical techniques, methods, knowledge and literature for the elementary and secondary string program.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH7230</td>
<td>7230</td>
<td>HP with Indiv with Disab</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>This course introduces the health disparities experience by individuals and explores the unique social, physical and political needs for health promotion interventions.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIL2010</td>
<td>2010</td>
<td>Foundations of Ldrship</td>
<td>MIL</td>
<td>Military Science</td>
<td>3</td>
<td>Analysis of the light infantry squad's weapons and employment and the leader's role in directing and controlling small units in the execution of offensive and defensive tactical missions. Contracted students are required to participate in two-hour lab, physical fitness program and weekend training exercises.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIL2011</td>
<td>2011</td>
<td>Foundation of Ldrship Lab</td>
<td>MIL</td>
<td>Military Science</td>
<td>0</td>
<td>Application of Army tactics, techniques and procedures in cadet-led, cadre-supervised lab. Mandatory participation in weekly two-hour leadership lab, three physical fitness classes and weekend training exercises for all contracted cadets.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL9750</td>
<td>9750</td>
<td>Directed Study</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
<td>Designed for students enrolled in a program requiring a research study. Students and their assigned program advisors collaboratively determine the course requirements.</td>
</tr>
</tbody>
</table>
Spring 2021 | EDS6690 | 6690 | Clin Prac Remed | EDS | Education - Special Education | 3 | Use assessment data to plan and implement remediation in a school setting. Write professional case studies integrating assessment and tutoring data. Includes twenty hours in off-campus elementary school setting. Department Managed Prerequisite(s): EDS 6590 Minimum Grade of D and Graduate level EDS 6610 Minimum Grade of D and (Graduate level EDS 6420 Minimum Grade of D or Graduate level EDS 6240 Minimum Grade of D) and Graduate level ED 6020 Minimum Grade of D and Graduate level ED 6030 Minimum Grade of D and Graduate level ED 6040 Minimum Grade of D and Graduate level ED 6050 Minimum Grade of D; SEM | GR | LL | Lecture/Lab Combination | 

Spring 2021 | HST7300 | 7300 | Seminar Latin Amer Hist | HST | History | 3 | Examines selected Latin American nations and regions (e.g., Mexico, Argentina) and particular topics (e.g., Authoritarianism) in detail. Topics vary. Department Managed Prerequisite(s): Graduate level HST 6420 Minimum Grade of D or Graduate level HST 6240 Minimum Grade of D; SEM | GR | SE | Seminar | 

Spring 2021 | PPHT420 | 7420 | Health Program Plan & E | PPH | Population & Public Health | 3 | This course develops a depth of health education knowledge and skills for planning, implementing, and evaluating community health education programs. Awareness, behavioral, social, environmental, and policy type interventions will be discussed. Department Managed Prerequisite(s): Graduate level PPHT 6400 Minimum Grade of D; SEM | GR | LE | Lecture | 

Spring 2021 | SW3700 | 3700 | Hum Behav Soc Env | SW | Social Work | 3 | Analysis of human behaviors in order to guide assessment, intervention, and evaluation of micro, mezzo, and macro social work practice. | UG | LE | Lecture | 

Spring 2021 | UVC1000 | 1000 | College Success Topics | UVC | University College | 1 | Variable topics, including study strategies, returning to learning for veterans, returning to learning for adults, Phoenix program. | UG | LE | Lecture | 

Spring 2021 | SOC6080 | 6080 | Independent Study | SOC | Sociology | 1 | Research project in an area of specialized interest in Sociology. | GR | IS | Independent Study | 

Spring 2021 | IHE6990 | 6990 | Indep Stud in HIE I | IHE | Industrial & Hum Fac Engr | 1 | Graduate independent studies in advanced industrial and human factors engineering. Topics vary. | GR | IS | Independent Study | 

Spring 2021 | NUR7734 | 7734 | NNP Practice II | NUR | Nursing | 7 | The clinical focus of this course is on continuing clinical competencies for the nurse practitioner in the Level III/IV neonatal intensive care unit. The course continues the exploration of embryology, neonatal pathophysiology, and management of the disease process. Students will apply current management strategies and will utilize best evidence to provide a high level of care for infants and their families. | GR | LE | Lecture | 

Spring 2021 | ENG6930 | 6930 | Internship in Teaching | ENG | English | 3 | Supervised college-level teaching or tutoring. | GR | IN | Internship | 

Spring 2021 | SPNS5120 | 5120 | Spanish Conversation II | SPN | Spanish | 3 | Practice in oral use of Spanish emphasizing the culture of the Hispanic world. | GR | LE | Lecture | 

Spring 2021 | BIO4270 | 4270 | Pathogenic Microbiology | BIO | Biology | 3 | Studies microorganisms pathogenic for humans and animals using the organ system approach. Emphasizes mechanisms of pathogenesis and host resistance. | UG | LE | Lecture | 

Spring 2021 | PLS6822 | 6822 | Congress Dist Internship | PLS | Political Science | 3 | Intern 12-15 hours per week in one of the area's congressional district local offices to assist staff with constituency casework. | GR | IN | Internship | 

Spring 2021 | ART2080 | 2080 | 3D Design and Form | ART | Art | 3 | Introduction to basic processes, materials, and concepts of sculpture. | UG | LB | Lab | 

Spring 2021 | TH3450 | 3450 | Acting III | TH | Theatre | 3 | Training in approaches to a range of texts by playwrights from the early and late Modern period such as Ibsen, Chekhov, Shaw, Williams, Miller, O'Neill and others. Emphasis on understanding the acting conventions associated with these styles. | UG | LL | Lecture/Lab Combination | 

Spring 2021 | ENG3570 | 3570 | Reading Workshop | ENG | English | 3 | Advanced strategies for teaching reading to middle school and adolescent students with an emphasis on literary response and workshop pedagogy. | GR | LE | Lecture | 

Spring 2021 | ANT7110 | 7110 | Human Gross Anatomy | ANT | Anatomy | 6 | (Also listed as BMS 8370.) Lectures and dissection of human cadaver donor. | GR | LL | Lecture/Lab Combination | 

Spring 2021 | HPR4450 | 4450 | Checkpoint 3 | HPR | Health Phy Educ & Recreation | 3 | Monitors and supports the professional progress of health and physical education licensure students. Enhances the HPR teacher candidate's preparation for Praxis II exam, student teaching and career development. | GR | LE | Lecture | 

Spring 2021 | STT4260 | 4260 | Survival Analysis | STT | Statistics | 3 | Censoring and truncation, survival and hazard functions, estimation and hypothesis tests, Cox proportional hazards model, diagnostics of the Cox model; state-of-the-art software for survival analysis models. | UG | LE | Lecture | 

Spring 2021 | PTX7130 | 7130 | P&T Journal Club-Summer | PTX | Pharmacology/Toxicology | 1 | WSU P&T faculty driven course. Students are presented with current literature on around a specific topic. The students will give presentations on the material. | GR | SE | Seminar |
<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Title</th>
<th>Division</th>
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<td>CLS3500</td>
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<td>Ancient Culture and Soc</td>
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<td>Adv Instrumental Cord Lab</td>
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<td>8990</td>
<td>Dissertation Defense</td>
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<td>ART5140</td>
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<td>Spring 21</td>
<td>STT6670</td>
<td>Statistical Methods II</td>
<td>3</td>
<td>Randomization and replication. One and two-way analysis of variance, multiple comparisons, analysis of covariance. Multi-factor experiments. Block designs. Mixed- and random-effects models, including repeated measures. Nested factors; split-plot designs; confounding and fractions for 2 x k factorial experiments.&lt;br&gt;&lt;br&gt;Department Managed Prerequisite(s): Graduate level STT 6660 Minimum Grade of D&lt;br&gt;&lt;br&gt;GR PR Practicum</td>
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<td>Spring 21</td>
<td>PPH8110</td>
<td>Public Health APE</td>
<td>1</td>
<td>This applied practice experience is a supervised applied public health learning experience in which students work within a community organization to support public health efforts that are meaningful to the organization.</td>
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<tr>
<td>Spring 21</td>
<td>BIO4110</td>
<td>The Aquatic Environment</td>
<td>5</td>
<td>Detailed coverage of the physical–chemical and biological aspects of inland aquatic ecosystems. Origins and physical and chemical properties of lakes and rivers and the influences of physical-chemical parameters (light, heat, nutrients) on biological processes. Emphasizes the identity and functions of organisms in aquatic ecosystems. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>APS3030</td>
<td>Services Marketing</td>
<td>3</td>
<td>This course is designed for students who may be interested in service industries and will address the distinct needs and problems of service firms and help students gain an understanding of service marketing issues.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>MUS4010</td>
<td>Teach Mus In Plur Soc</td>
<td>3</td>
<td>Orientation to teaching in a pluralistic society and awareness of the total global community. Examination of social and philosophical foundations as they relate to teaching music in diverse settings and situations.</td>
</tr>
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<td>BIO6750L</td>
<td>Ichthyology Lab</td>
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<td>Required laboratory for BIO 6750.</td>
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<td>PSY2530</td>
<td>Influence and Persuasion</td>
<td>3</td>
<td>Examines the importance of attitude formation, structure, and change, which special emphasis on the elements of persuasive appeals. Applications of this research to marketing, advertising, politics, law, ethics, evaluating interviewing models, and developing appropriate career programs for various individuals.</td>
</tr>
<tr>
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<td>ME6850</td>
<td>Nano-scale Sci and Engr</td>
<td>3</td>
<td>Students will be introduced to Nano-scale science and engineering in terms of the nano-scale building blocks (emphasizing carbon based nano-species), the characterization techniques (emphasizing Raman Spectroscopy), and the nano-phenomena such as thermal, optical, electrical, chemical, and mechanical phenomena observed on the nano-scale.&lt;br&gt;&lt;br&gt;Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and Graduate level ME 5750 Minimum Grade of D&lt;br&gt;&lt;br&gt;GR LE Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ES8130</td>
<td>Dissertation Research</td>
<td>1</td>
<td>Planning and execution of scholarly original research of a quality that is publishable in a refereed scientific journal. Research must be communicated to the Supervisory Committee in written form and defended by public oral examination.</td>
</tr>
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<td>PSY8630</td>
<td>Psychometrics</td>
<td>2</td>
<td>Department Managed Prerequisite(s): Graduate level PSY 7010 Minimum Grade of D&lt;br&gt;&lt;br&gt;GR SE Seminar</td>
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<tr>
<td>Spring 21</td>
<td>PSY3820</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
<td>Human behavior as supported by specific brain mechanisms. Incorporates research from varied disciplines such as cognitive psychology, neuropsychology, neurobiology, philosophy, and computer science.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>AED2680</td>
<td>Creative Art in Ed Envir</td>
<td>3</td>
<td>Understanding the relationship between child development and creative expression with emphasis on materials and methods appropriate for elementary/secondary students. Includes curriculum implementation strategies adaptable to a variety of ages and grade levels.</td>
</tr>
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<td>Spring 21</td>
<td>MUE4460</td>
<td>University Saxophone Quartet</td>
<td>1</td>
<td>Performs saxophone quartet repertoire ranging from classic to jazz to contemporary. Audition required.</td>
</tr>
<tr>
<td>Spring 21</td>
<td>SAA6680</td>
<td>Career Dev Prog/Employ</td>
<td>3</td>
<td>Focus of the course will be on understanding group facilitation dynamics, working with and understanding individuals from diverse backgrounds, applying Career Development Facilitator ethical guidelines to real world situations, writing and critiquing job search correspondence, evaluating interviewing models, and developing appropriate career programs for various individuals and groups.</td>
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<td>DEV0450</td>
<td>Found Quant Reasoning</td>
<td>3</td>
<td>Review of basic arithmetic and algebra concepts and skills including numbers and the number line, operations on numbers, equations, graphing points and lines in two dimensions, and reading tables and graphs and approximating areas. The context and examples will be from quantitative reasoning (statistics, number sense, functions). The content will be delivered to provide “just in time” remediation for MTH 1450. This course is taught as a co-requisite course for MTH 1450.</td>
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<td>Department</td>
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<td>PHL3780</td>
<td>3780</td>
<td>Bioethics</td>
<td>Philosophy</td>
<td>Major ethical problems arising in medical settings. Issues include the value of human life, abortion, euthanasia, the status of advanced directives, cloning, and genetic enhancement.</td>
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<tr>
<td>BMS7350</td>
<td>7350</td>
<td>Human Cont Engineering</td>
<td>Biomedical Sciences</td>
<td>Modeling, design and analysis of the physiological and cognitive performance of the human operator. Human-environmental interactions are characterized as biothermal control systems. Human-technological interactions are characterized as informative control systems.</td>
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<tr>
<td>PSI9080</td>
<td>9080</td>
<td>Practice Tutorial</td>
<td>Professional Psychology</td>
<td>Exposure to a variety of clinical case materials using a vertical team format.</td>
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<td>ME7730</td>
<td>7730</td>
<td>Adv Physical Properties</td>
<td>Mechanical and Materials Engr</td>
<td>This course focuses on some of the advanced physical properties of solid-state materials including thermoelectric energy conversion, optoelectronics, principles of lasers, high-k dielectrics, magnetoresistance, negative differential resistance, superconductivity, effects of reduced dimensionality and nanostructures.</td>
</tr>
<tr>
<td>CEG2900</td>
<td>2900</td>
<td>Spec Topics in Comp Egr</td>
<td>Computer Engineering</td>
<td>Special topics in Computer Engineering.</td>
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<tr>
<td>IT2150</td>
<td>2150</td>
<td>Design Integration</td>
<td>Information Technology</td>
<td>Skills needed to integrate essential software into projects that conform to design principles and client expectations.</td>
</tr>
<tr>
<td>ED6280</td>
<td>6280</td>
<td>Literacy Lessons Certification</td>
<td>Education</td>
<td>Teachers certified/licensed in special education, ESL, or bilingual education apply Clay’s literacy processing theory while conducting a case study with an emphasis on assessment, goal setting, individualized instruction, contingent teaching, and acceleration.</td>
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<td>4470</td>
<td>Pub/Hum Service Trans</td>
<td>Urban Affairs</td>
<td>Principles of developing and managing public and human service transportation systems including its role in society, the history and geography of public transportation, and funding, organizational, cost benefit, labor, and customer service issues.</td>
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<tr>
<td>CNL4610</td>
<td>4610</td>
<td>Principles of Counseling</td>
<td>Counseling</td>
<td>An overview of major counseling principles, theories, techniques, historical foundations, and services.</td>
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<tr>
<td>PSY2150</td>
<td>2150</td>
<td>Psy Principles in Films</td>
<td>Psychology</td>
<td>Studies principles of psychology and their application through commercial films.</td>
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<tr>
<td>BMB1000</td>
<td>1000</td>
<td>Freshman Seminar in BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>Introduction to BMB faculty and the facilities at WSU. Development of a learning portfolio to facilitate student growth and development and BMB program success. Introduction to the scientific practices encompassed in the Next Generation Science Standards (NGSS).</td>
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<tr>
<td>ED78590</td>
<td>8590</td>
<td>LMS &amp; Evaluation</td>
<td>Educational Technology</td>
<td>Examines the issues with integrating curriculum with educational technologies such as learning management systems and the knowledge and skills necessary to evaluate the quality of online courses.</td>
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<td>LAW7350</td>
<td>7350</td>
<td>Law for Accountants</td>
<td>Law</td>
<td>Course covers specific areas of business law that are included on the CPA Examination. Law and their application are drawn from the following general areas of business law: agency, business organizations, bankruptcy, the Uniform Commercial Code, accountants' liability, and property.</td>
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<td>SPN3260</td>
<td>3260</td>
<td>Business Spanish II</td>
<td>Spanish</td>
<td>Study of the business culture behind Spanish. Development of the communication skills and intercultural understanding. Use of Spanish in international business. Integrated Writing course.</td>
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<tr>
<td>BMB8000</td>
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<td>Biochemistry Seminar</td>
<td>Biochem &amp; Molecular Biology</td>
<td>Current departmental research in Biochemistry and Molecular Biology presented in an informal seminar format.</td>
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<td>Grad Capstone Project</td>
<td>French</td>
<td>Capstone project involving independent research with written and oral final presentations. Topics vary. Taught in French.</td>
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<td>Gender Violence Intl Pol</td>
<td>Lecture</td>
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<td>Conservation Biology</td>
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<td>Cities of the World</td>
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<td>Data Struc &amp; Algorithms</td>
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<td>Computer Graphics</td>
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<td>Tests &amp; Measures</td>
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<td>Fund Occup Hlth &amp; Safety</td>
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<td>MUS6360</td>
<td>6360</td>
<td>Counterpoint</td>
<td>Elementary Derivation and use of deterministic and stochastic population models, methods of analyzing</td>
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<td>Exercises in species counterpart, imitation and fugal devices. Analysis of examples from Renaissance to the 20th century.</td>
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<tr>
<td>Spring 2021</td>
<td>EDL7410</td>
<td>7410</td>
<td>Instructional Design</td>
<td>EDL Educational Leadership 3 Designing, organizing, managing, and evaluating learning experiences in physical and virtual environments.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EED4210</td>
<td>4210</td>
<td>EED Internship Part I</td>
<td>EED Elementary Education P.5 1 Candidates, mentored by an elementary educator, assume additional responsibilities in planning, organizing, delivering, and assessing of instruction in a P-5 grade setting applying pedagogical content knowledge from elementary methods courses.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH7170</td>
<td>7170</td>
<td>PH Epidemiology II</td>
<td>PPH Population &amp; Public Health 3 Through homework, readings, exercises and class projects, students will gain hands-on experience of epidemiologic research.</td>
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<tr>
<td>Spring 2021</td>
<td>BMS7340</td>
<td>7340</td>
<td>Adv Inorganic Chem II</td>
<td>BMS Biomedical Sciences 2 Thorough examination of the chemistry of metals stressing the transition elements, ligand field theory, and mechanisms of inorganic reactions.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE6450</td>
<td>6450</td>
<td>Essentials of CTE</td>
<td>CTE Career and Technical Education 3 Explores a historical timeline from vocational apprentice to CTE, federal legislation, legal issues, special needs, professional and student organizations, current issues, and the philosophy of CTE.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6170</td>
<td>6170</td>
<td>Digital Cont Sys</td>
<td>EE Electrical Engineering 3 Samples spectra and aliasing, analysis and design of digital control systems using root locus and transform techniques, discrete equivalents of continuous controller and quantization effects.</td>
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<tr>
<td>Spring 2021</td>
<td>BIO6470</td>
<td>6470</td>
<td>Pop &amp; Comm Ecology</td>
<td>BIO Biology 3 Derivation and use of deterministic and stochastic population models, methods of analyzing community structure, composition, and dynamics.</td>
</tr>
</tbody>
</table>
| Spring 2021 | ME4770  | 4770       | Mech. Behavior of Metals | ME Mechanical and Materials Engr 3 Crystal plasticity and single crystal behavior. Introduction to dislocation theory. Strengthening mechanisms and polycrystalline behavior. Introduction to fracture, fatigue, and creep of materials.<br>Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of C and Undergraduate level ME 3120 Minimum Grade of D;
| Spring 2021 | ISE4960 | 4960       | Dept Honors Research ISE | ISE Industrial & Systems Engr 1 Research in industrial and systems engineering in fulfillment of departmental honors requirements. Topics vary. |
| Spring 2021 | ASM7777 | 7777       | Space Medicine | ASM Aerospace Medicine 4 This course will provide graduate students with special opportunities to receive information specifically relevant to the practice of Space Medicine and its application in promoting current sub-orbital and orbital space flights, planned missions beyond Low Earth Orbit, and future commercial space flight operations. |
| Spring 2021 | ED8800  | 8800       | Theor Issue Lifespan Dev | ED Education 3 Focuses on theoretical views of lifespan human development, mechanisms underpinning development, and the influence of nature and nurture in human development. |
| Spring 2021 | KNH2410 | 2410       | Intro to KNH | KNH Kinesiology & Health 3 Introduction to professional programs and careers in sport science, public health and teaching health and physical education. Emphasis on history, philosophical foundations, current topics and future directions. |
| Spring 2021 | TH3840  | 3840       | Intro to Dramatic Wrig | TH Theatre 3 Theory and practice of techniques of dramatic writing emphasizing writing of original plays. |
| Spring 2021 | ME3120  | 3120       | Mechanics of Materials | ME Mechanical and Materials Engr 3 Introduction to stress and deformation in deformable solids. Topics include axial loading, torsion, pure bending, shear stresses in beams, design of beams under transverse loading, thin-wall pressure vessels, transformation of stress, stresses under combined loadings, deflection of beams and buckling.<br>Department Managed Prerequisite(s): Undergraduate level ME 2120 Minimum Grade of C and (Undergraduate level ME 1020 Minimum Grade of D or Undergraduate level ME 2170 Minimum Grade of D)<br>Or<br>Graduate level EE 6620 Minimum Grade of D and Graduate level EE 6620L Minimum Grade of D or (Undergraduate level EE 4620 Minimum Grade of D and Undergraduate level EE 4620L Minimum Grade of D)<br>Or<br>(Undergraduate level EE 3320 Minimum Grade of D or Undergraduate level CEG 3320 Minimum Grade of D); |
| Spring 2021 | URS4950 | 4950       | Urban Affairs Internship | URS Urban Affairs 3 Senior-level internship in the offices of a local public agency. |
| Spring 2021 | TH1440  | 1440       | Acting I | TH Theatre 3 Introduction to fundamental aspects of acting, including imagination, personalization, pursuit of the objective, use of tactical choices and beginning use of text with introduction to script analysis. |
| Spring 2021 | EE7550  | 7550       | Trust Integ Ckt Design | EE Electrical Engineering 3 This course will cover topics in "Trust for Integrated Circuit Design." We will explore the problem of Trust at each level of the Integrated Circuit design process, from high level simulation all the way to layout, fabrication, and packaging.<br>Department Managed Prerequisite(s): Undergraduate level EE 6620 Minimum Grade of D and Graduate level EE 6620L Minimum Grade of D or (Undergraduate level EE 4620 Minimum Grade of D and Undergraduate level EE 4620L Minimum Grade of D) or Undergraduate level CEG 3320 Minimum Grade of D;
Spring 2021 | EC7820 | 7820 | Research in Economics II | EC | Economics | 1 | Titles vary. Intensive reading or research in selected fields of economics.<b> Department Managed Prerequisite(s): Graduate level EC 5090 Minimum Grade of D and Graduate level EC 5100 Minimum Grade of D and Graduate level EC 5210 Minimum Grade of D and Graduate level EC 5220 Minimum Grade of D</b>

Spring 2021 | ME6260 | 6260 | Intro Robotics | ME | Mechanical and Materials Engr | 3 | (Also listed as CEG 6560 and ME 6560.) An introduction to the mathematics of robots. Topics covered include coordinate systems and transformations, manipulator kinematics and inverse kinematics, Jacobians, dynamic and trajectory planning.

Spring 2021 | ECO5520 | 5520 | Entrepreneurship Basics | ECO | Center for Economic Educ. | 2 | K-12 teachers are provided with a basic foundation to teach entrepreneurship; it is designed for teachers with minimal requisite knowledge of economics, business and entrepreneurship. Topics include business plans, investing, picking the right business and others. This course has a fee that is non-refundable once the term begins.

Spring 2021 | UVC1110 | 1110 | Athletes Interest Group | UVC | University College | 0 | National Collegiate Athletic Association regulations. Required for all new student athletes.

Spring 2021 | MUS6520 | 6520 | Piano Literature II | MUS | Music | 3 | A survey of the literature of the piano and its predecessors--clavichord, harpsichord, and the pianoforte--from early English Virginal music to the present time.

Spring 2021 | ME4540 | 4540 | Solar Thermal Engr. | ME | Mechanical and Materials Engr | 3 | Fundamentals of solar radiation and how it can be utilized as a thermal energy source. Solar insolation on a surface, flat plate collectors, concentrating collectors, thermal energy storage, and solar hot water heating will be discussed.<b> Department Managed Prerequisite(s): Undergraduate level ME 3360 Minimum Grade of D</b>

Spring 2021 | PTX8120 | 8120 | Case Studies CBRN Defense | PTX | Pharmacology/Toxicology | 3 | This course will provide an opportunity for students to review historical chemical and biological scenarios to evaluate means, methods, motivation and effects of such uses.

Spring 2021 | EE5450L | 5450L | Electromagnetics Lab | EE | Electrical Engineering | 1 | Laboratory supporting EE 5450. Students will experience hands on learning in lab environment.

Spring 2021 | TH3440 | 3440 | Acting III | TH | Theatre | 3 | Training in approaches to such playwrights as the Greeks, Shakespeare, Moliere, Restoration and 18th century playwrights, etc. Builds on fundamentals learned in the first two years of the Professional Actor Training Program.

Spring 2021 | EES6480 | 6480 | Plate Tectonics for Edu | EES | Earth & Environmental Sciences | 3 | This course explores the history and development of the theory of plate tectonics with an emphasis upon the particular needs of the educator. A required text provides the topical core, supplemented by abundant web-based resources and information.

Spring 2021 | ED3060 | 3060 | MCE Gen Soc Studies Inst | ED | Education | 3 | Methods for teaching 4th, 5th, and 6th grades social studies pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula, and materials.

Spring 2021 | PLS3700 | 3700 | International Theory | PLS | Political Science | 3 | Influential classical and contemporary contending theoretical perspectives in international relations and their critique. Integrated Writing course.

Spring 2021 | ASM7210 | 7210 | Aeromedical Concerns Ops | ASM | Aerospace Medicine | 3 | This course builds on the basics of aerospace medicine course (ASM 6510) to advance the understanding of the relevant aeromedical aspects related to the operational flight & space environments.

Spring 2021 | BIO6410 | 6410 | Behavioral Ecology | BIO | Biology | 3 | This course will focus on how and why animals behave the way they do. In particular, we will study how an individual's behavior contributes to its survival and reproductive success (i.e., why do particular behaviors evolve?) and how the environment influences optimal behavioral strategies (i.e., what is the ecological basis of behavior?). This course has a large theoretical component, but we will also examine some real behaviors as case studies.

Spring 2021 | BME8930 | 8930 | Non-Dissert Resrch in BME | BME | Biomedical Engineering | 1 | Ph.D. Non-Dissertation Research in Biomedical Engineering.

Spring 2021 | EE7560 | 7560 | Advanced Robotics | EE | Electrical Engineering | 3 | Detailed study of the dynamics and control of robotic systems and robot programming languages and systems. Material covered includes rigid-body dynamics; linear, nonlinear, adaptive, and force control of manipulators; and robot programming languages. Sensors, low-level and higher level vision techniques, task planning including obstacle avoidance and artificial intelligence and expert systems as applied to robotic systems.<b> Department Managed Prerequisite(s): (Graduate level EE 6560 Minimum Grade of D and Graduate level EE 6560L Minimum Grade of D) or (Undergraduate level EE 4560 Minimum Grade of D and Undergraduate level EE 4560L Minimum Grade of D)</b>
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<td>Spring 21</td>
<td>CHE3010</td>
<td>3010</td>
<td>Advanced Chinese I</td>
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<td>Spring 21</td>
<td>CS7140</td>
<td>7140</td>
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<td>Spring 21</td>
<td>ME4750L</td>
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<td>Mat. Characterization Lab</td>
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<td>Spring 21</td>
<td>DAN3070</td>
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<td>Intermed Tap Dance I</td>
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<td>Spring 21</td>
<td>ECO5140</td>
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<td>Spring 21</td>
<td>STT4960</td>
<td>4960</td>
<td>Topics in Stat and Prob</td>
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<td>Spring 21</td>
<td>PHL5410</td>
<td>5410</td>
<td>Aesthetics and PHL Art</td>
<td>PHL</td>
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<td>Spring 21</td>
<td>MGT3100</td>
<td>3100</td>
<td>Mgt &amp; Org Behavior</td>
<td>MGT</td>
<td>3</td>
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</table>
Introduces the concepts and language of international marketing and examines institutional, behavioral, and managerial aspects of a cross section of national marketing systems and multinational organization operations.

This course will emphasize the development of listening skills, public speaking skills, interpreting, and training skills. The course explores communication skills including training and development as a research and training focus for students to apply toward their chosen field. Students will learn how to identify and assess communication competence and how to develop training programs and presentations to enhance communication competency.

Introduces the concepts and language of international marketing and examines institutional, behavioral, and managerial aspects of a cross section of national marketing systems and multinational organization operations.

This course addresses the physical, chemical, and biological methods used to remediate contamination in soils and groundwater. Emphasis is on practical applications. Strategies and technologies to address contamination, including the natural attenuation, containment techniques, pump-and-treat, and in situ technologies, will be reviewed in sufficient technical detail so the student can apply basic engineering design equations.

Readings and reports in 19th-century poetry. Representative works of Heine, Drouste-Hulshoff, Morike, Dehmel, Liliencron, and others. Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D or Undergraduate level GER 3120 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3260 Minimum Grade of D or Undergraduate level GER 3310 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D or Undergraduate level GER 3610 Minimum Grade of D or Undergraduate level GER 3620 Minimum Grade of D or Undergraduate level GER 3630 Minimum Grade of D or Undergraduate level GER 3640 Minimum Grade of D or Undergraduate level GER 3650 Minimum Grade of D or Undergraduate level GER 3660 Minimum Grade of D or Undergraduate level GER 3670 Minimum Grade of D or Undergraduate level GER 3680 Minimum Grade of D or Undergraduate level GER 3690 Minimum Grade of D.

Course is designed to provide a practical public health experience. To describe communities quantitatively, learners will create tables and descriptions using current public health and community data; they will also conduct qualitative inquiry about the nature of communities. Visual display and reporting and presentation skills will be covered. Quantitative and qualitative data are combined to give learners practical experience creating a community assessment from a variety of data sources.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
<th>Department</th>
<th>Level</th>
<th>Type</th>
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<tr>
<td>Spring 21</td>
<td>JPN3700</td>
<td>3700</td>
<td>Internship in Japanese</td>
<td>Supervised use of Japanese in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum time commitment 135 hours a semester, including a minimum of 120 hours of on-site work. Senior standing and advisor permission required.</td>
<td>JPN</td>
<td>Undergraduate</td>
<td>Internship</td>
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<tr>
<td>Spring 21</td>
<td>BIO3250</td>
<td>3250</td>
<td>Basic Cell Culture Tech</td>
<td>Eukaryotic cell culture and basic techniques used to culture eukaryotic cells. Basic cell culture laboratory setup and equipment, propagation and maintenance of cell culture lines, the introduction of new genes into cell lines, and cellular staining. Students will work both in groups and independently.</td>
<td>BIO</td>
<td>Undergraduate</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>EGR4980R</td>
<td>4980R</td>
<td>Special Topics in EGR Rec</td>
<td>Required recitation for EGR 4980.</td>
<td>EGR</td>
<td>Undergraduate</td>
<td>Recitation</td>
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<tr>
<td>Spring 21</td>
<td>KNH1720B</td>
<td>1720B</td>
<td>Tennis</td>
<td>Fundamental skills and knowledge of Tennis. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>KNH</td>
<td>Undergraduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>ENG6300</td>
<td>6300</td>
<td>Studies in American Lit</td>
<td>Intensive study of American literary history and/or the work of individual American writers. Intended to develop an understanding of literature within the contexts of the author's life, literary production, and historical background.</td>
<td>ENG</td>
<td>Graduate</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>BIO1070L</td>
<td>1070L</td>
<td>Health and Disease Laboratory</td>
<td>Required laboratory for BIO 1070.</td>
<td>BIO</td>
<td>Undergraduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>CLS6810</td>
<td>6810</td>
<td>Independent Study</td>
<td>Faculty-directed, individualized study on student-selected topics. Limited to advanced students. Permission of faculty and a minimum 3.5 GPA required.</td>
<td>CLS</td>
<td>Undergraduate</td>
<td>Independent Study</td>
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<td>Spring 21</td>
<td>ART4060</td>
<td>4060</td>
<td>Studies in Painting</td>
<td>Explores problems and approaches to painting and includes cross-media and interdisciplinary studies.</td>
<td>ART</td>
<td>Undergraduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>URS7000</td>
<td>7000</td>
<td>Foundations/Tools of PA</td>
<td>Examines the legal and political variables and tools that affect the management and operation of local governments and nonprofit agencies. Special emphasis is placed on Ohio.</td>
<td>URS</td>
<td>Undergraduate</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>HPR2120</td>
<td>2120</td>
<td>Adapted Phys Education</td>
<td>Introduction to sport, leisure and physical education for persons with special needs across school, community or clinical based programs.</td>
<td>HPR</td>
<td>Undergraduate</td>
<td>Lecture/Lab Combination</td>
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<td>Spring 21</td>
<td>KNH1780</td>
<td>1780</td>
<td>Weight Training</td>
<td>Fundamental skills and knowledge of Weight Training. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>KNH</td>
<td>Undergraduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>CEG6330L</td>
<td>6330L</td>
<td>Micropro Embedded System Lab</td>
<td>Required laboratory for CEG 6330.</td>
<td>CEG</td>
<td>Graduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>PLS4740</td>
<td>4740</td>
<td>Politics Women Terrorist</td>
<td>Examines the violent and political behavior of women in terrorism, including ideology, gender, and case studies. Integrated Writing course.</td>
<td>PLS</td>
<td>Undergraduate</td>
<td>Seminar</td>
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<tr>
<td>Spring 21</td>
<td>PHY1050</td>
<td>1050</td>
<td>Physics How Things Work</td>
<td>The physics associated with everyday scientific and technological phenomena and devices, including those associated with the generation, detection, and application of sound, light, and energy.</td>
<td>PHY</td>
<td>Undergraduate</td>
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<td>Spring 21</td>
<td>KNH1500</td>
<td>1500</td>
<td>Scuba &amp; Skin: Open Water</td>
<td>Fundamental skills and knowledge of Scuba &amp; Skin: Open Water. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
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<td>Undergraduate</td>
<td>Lab</td>
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<tr>
<td>Spring 21</td>
<td>DAN1040</td>
<td>1040</td>
<td>Ballet Musical Th I</td>
<td>Group class introduces Musical Theatre majors to fundamentals of ballet technique.</td>
<td>DAN</td>
<td>Undergraduate</td>
<td>Studio</td>
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<tr>
<td>Spring 21</td>
<td>PLS7980</td>
<td>7980</td>
<td>Graduate Project</td>
<td>Graduate research project that combines knowledge gained through coursework with field experience.</td>
<td>PLS</td>
<td>Graduate</td>
<td>Independent Study</td>
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<td>Spring 21</td>
<td>WGS1000</td>
<td>1000</td>
<td>Sex Health &amp; Diversity</td>
<td>Introduces students to the interdisciplinary study of sexuality, focusing on sexual health from a diverse and comprehensive (i.e. including sexual pleasure) perspective. Topics covered may include: sexual anatomy and function, sexual and gender identity, sexual behavior, communication, and virginity.</td>
<td>WGS</td>
<td>Undergraduate</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>PSY8740</td>
<td>8740</td>
<td>Teams in Organizations</td>
<td>This course will address theories, issues, and research relating to workplace teams. The purpose will be to discuss definitions of teams as well as their development, composition, and functioning.</td>
<td>PSY</td>
<td>Graduate</td>
<td>Seminar</td>
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<td>Semester</td>
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<td>Department</td>
<td>Credits</td>
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<td>Ldrship Complex World Lab</td>
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<td>Lab</td>
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<td>Spring 2021</td>
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<td>Industrial &amp; Systems Engr</td>
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<td>PLS4823</td>
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<td>Campaign Internship</td>
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<td>Pharm&amp;Dox-DNA Damaging Agents</td>
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<td>Lecture</td>
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<td>Lecture</td>
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<td>Spring 2021</td>
<td>ANT2120L</td>
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<td>Human Anatomy &amp; Phys II Lab</td>
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Grade of D or Graduate level CEG 4110 Minimum Grade of D or Graduate level CEG 6110 Minimum Grade of D

UG LE Lecture

GR LE Lecture

GR LE Lecture

MD LE Lecture

UG LE Lecture

GR LB Lab

UG LL Lecture/Lab Combination

UG IN Internship

GR LB Lab

UG LB Lab
<p>| Spring 2021   | ED6230 | 6230  | Recert -Reading Recovery Crse I | ED   | Education | 3 | Teachers learn to apply Marie Clay’s theory of literacy processing while teaching Reading Recovery students. Key concepts include targeted instruction through assessment, the reciprocity of reading and writing, and teaching for accelerated learning. | GR | LE | Lecture |
| Spring 2021   | STT4640 | 4640  | Machine Learning | STT  | Statistics | 3 | Statistical models and computational algorithms are used to perform machine learning. Topics include classification and regression trees, bagging and boosting, resampling methods, bootstrapping, regularization, splines, random forest, principal component analysis. Software used for this course includes R. | UG | LE | Lecture |
| Spring 2021   | PTX8100 | 8100  | Med CHM/RAD/NUC Defense | PTX  | Pharmacology/Toxicology | 3 | This course will provide an understanding of the chemical, radiological, and nuclear threat, related to toxicology/pathogenesis and medical intervention. The course will also introduce requirements for Government and Contract Research standards for working with highly toxic materials, study design, development, and execution to include issues with regard to Good Laboratory Practices, Institutional Animal Care and Use Committee, Quality Assurance, and safety pharmacology. | GR | LE | Lecture |
| Spring 2021   | ARA6210 | 6210  | Intro to Media Arabic | ARA  | Arabic | 3 | A course designed to give students a foundation in the language and style of modern Arabic media through the study of newspapers, magazines, TV and radio. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ARA 3210 Minimum Grade of D or Undergraduate level ARA 5210 Minimum Grade of D.&lt;/b&gt; | GR | LE | Lecture |
| Spring 2021   | EDL7820 | 7820  | Seminar Law | EDL  | Educational Leadership | 3 | Examines the legal framework that all school personnel must function in. Emphasis on both legal precedents and statutory provisions. | GR | LE | Lecture |
| Spring 2021   | MTE6920 | 6920  | Seminar in Math Stat Ed | MTE  | Mathematics Teacher Education | 1 | Reading and discussion of current trends and research in mathematics and statistics education with applications to Pre K-14 mathematics classrooms. | GR | SE | Seminar |
| Spring 2021   | ISE4310 | 4310  | Ergonomics | ISE  | Industrial &amp; Systems Engr | 3 | Introduction to the application of ergonomic principles to the industrial environment. Includes ergonomic planning and implementation, the work environment, NIOSH work factors, work measurement and work-station and equipment design. | UG | LE | Lecture |
| Spring 2021   | EDS6240 | 6240  | Cur meth mat ECIS &amp; PKSN | EDS  | Education - Special Education | 3 | Interventions, modifications and adaptations for children in early childhood special education or early intervention to access curriculum. | GR | LE | Lecture |
| Spring 2021   | SPN5990 | 5990  | Studies in Selected Subj | SPN  | Spanish | 1 | Graduate level research and writing in the field of Spanish. Topics vary. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level SPN 5110 Minimum Grade of D or Graduate level SPN 5120 Minimum Grade of D or Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3220 Minimum Grade of D.&lt;/b&gt; | GR | LE | Lecture |
| Spring 2021   | PLS5470 | 5470  | Public Policy | PLS  | Political Science | 3 | Examines models of public policy making and analyzes contemporary policy debates on the economy, energy and environment, immigration, and education. | GR | LE | Lecture |
| Spring 2021   | ME4530 | 4530  | Energy Conversion | ME  | Mechanical and Materials Engr | 3 | Fundamentals of energy and energy conversion, the conversion of energy from mechanical, thermal, chemical, and nuclear sources. To demonstrate these energy forms generators, wind, ocean, turbines, direct energy conversion, fossil fuels, biofuels, and nuclear power will be presented. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3310 Minimum Grade of D.&lt;/b&gt; | UG | LE | Lecture |
| Spring 2021   | ED2750 | 2750  | Fld Exp II: Intro Ed Psy | ED  | Education | 1 | Introduces students to the educational process through participation in a classroom and through an examination of classroom dynamics within a natural setting. Must have at least a 2.0 GPA. | UG | PR | Practicum |
| Spring 2021   | EE7280 | 7280  | Intelligent Control | EE  | Electrical Engineering | 3 | The course focuses on providing an introduction to the emerging area of intelligent control methods and their applications to the control and health monitoring of uncertain, complex dynamical systems. An additional goal is the development of the foundational tools needed for pursuing independent research, giving oral presentations, and producing written reports. &lt;b&gt;Department Managed Prerequisite(s): Graduate level EE 7020 Minimum Grade of D.&lt;/b&gt; | GR | LE | Lecture |
| Spring 2021   | DAN1010 | 1010  | Ballet I | DAN  | Dance | 3 | Introduction to vocabulary, techniques, and theories of ballet. Emphasis on body alignment and effective methods for gaining strength and flexibility necessary for proper ballet training. | UG | ST | Studio |
| Spring 2021   | FR4650 | 4650  | French/Francophone Lit | FR  | French | 3 | Selected topics in French and Francophone literature and film that investigate various themes, myths, genres, literary movements, or characters. Titles vary. Integrated Writing course. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D.&lt;/b&gt; | UG | LE | Lecture |
| Spring 2021 | BMB4750  | 4750 | Molec Biology of Cancer | BMB | Biochem &amp; Molecular Biology | 3 | A broad overview of the molecular basis of cancer. Weekly discussion of one or more of the molecular changes that cells need to acquire to become cancer. | UG LE Lecture |
| Spring 2021 | CHM5510L | 5510L | Physical Chemistry Lab I | CHM | Chemistry | 2 | Experimental methods of physical chemistry. | GR LB Lab |
| Spring 2021 | SLI4530  | 4530 | Deaf-Blind Interpreting | SLI | Sign Language Interpreting | 3 | Overview of role of the interpreter and necessary skills when working with individuals who are Deaf-Blind. Introduction to etiology of deaf-blindness, its impact on communication, and basic sighted-guide techniques. Focus on tactile interpreting skills. | UG LE Lecture |
| Spring 2021 | EES4400  | 4400 | Glacial Landforms | EES | Earth &amp; Environmental Sciences | 2 | Field trip to the Finger Lakes (New York) to examine the landforms, processes, and deposits associated with Pleistocene continental glaciation, as well as subsequent post-glacial modifications. | UG LL Lecture/Lab Combination |
| Spring 2021 | ART5660  | 5660 | Printmaking: Relief | ART | Art | 3 | Development of personalized concepts and individual aesthetic expression in printmaking with an emphasis in the area of relief. This course has a fee that is non-refundable once the term begins. | GR LB Lab |
| Spring 2021 | RHB7300  | 7300 | Epidemiology Addictions | RHB | Rehabilitation | 3 | Theory and practice of a variety of treatment modalities and settings. Explores interdisciplinary treatment planning, evidence based practices, family, individual and group interventions, systems, holistic intervention strategies, recovery supports including self-help groups. | GR LE Lecture |
| Spring 2021 | ED7120   | 7120 | Lit Instr Div Learners | ED | Education | 3 | Developing knowledge of a wide variety of children’s literature. Demonstrate understanding of how to use diverse texts as an instructional tool to meet the needs of a diverse culture. | GR LE Lecture |
| Spring 2021 | ME4250   | 4250 | Kinematics &amp; Design-Mech | ME | Mechanical and Materials Engr | 3 | Graphic, analytical, numerical, and symbolic techniques are used in the kinematic and dynamic analysis of machines. Computer-aided design of mechanisms is introduced. Emphasis on the application of these techniques to planar mechanisms. | UG LE Lecture |
| Spring 2021 | ARA5220  | 5220 | Adv ARA Syntax &amp; Grmr II | ARA | Arabic | 3 | An advanced course based in classical approaches to Arabic grammar and syntax, designed to prepare students to engage primary texts, both modern and classical. | GR LE Lecture |
| Spring 2021 | CS3820   | 3820 | Intro to Semantic Web | CS | Computer Science | 3 | Primary W3C standards for the Semantic Web, in particular the Web Ontology Language OWL, the Resource Description Framework RDF, and the SPARQL RDF Query Language. Obtain a solid understanding of their syntaxes, and also how these languages are used to convey information for machine-processing. Project-driven course format with a significant amount of hands-on modeling and programming. | UG LE Lecture |
| Spring 2021 | ATR4870  | 4870 | Athletic Training Intern | ATR | Athletic Training | 1 | Internship in one of the following settings: high school, college, sports medicine clinic, industrial setting, Olympics, or professional sports or any other setting approved by the Director of Athletic Training Education. | UG IN Internship |
| Spring 2021 | EE7920   | 7920 | Part-Time CPT in EE | EE | Electrical Engineering | 1 | Practical work experience in graduate level electrical engineering. | GR IN Internship |
| Spring 2021 | ED4220   | 4220 | MCE Teach: Prnc/Prac/Lrn | ED | Education | 3 | Focuses on the historical and underlying philosophy of the middle school concept based on the unique nature of pre-adolescents and adolescents. Current instructional and curricular practices are viewed in relation to this philosophy. | UG LE Lecture |
| Spring 2021 | ED4420   | 4420 | Professional Seminar/MCE | ED | Education | 3 | Prepares candidates for their first year of teaching. Topics include: classroom management, collaboration with others, school policies and procedures, resident educator program, resume building, licensure information, interviewing techniques, and creating a portfolio. | UG LE Lecture |
| Spring 2021 | ART3470  | 3470 | Beginning Painting | ART | Art | 3 | Working from still life, figure, and landscape emphasizing the use of color and drawing in visual organization. This course has a fee that is non-refundable once the term begins. | UG LB Lab |
| Spring 2021 | TH3220   | 3220 | Scene Painting II | TH | Theatre | 3 | Further development of skills taught in Scene Painting I, with addition of translucencies, portraiture, landscape, poster graphics, and carving architectural detail in foam. | UG LL Lecture/Lab Combination |
| Spring 2021 | ART3750  | 3750 | Armature/Figure Modeling | ART | Art | 3 | Development of personal concepts and aesthetic expression in sculpture. Emphasis on individualized approach to sculptural problems using armature structure and figure modeling. This course has a fee that is non-refundable once the term begins. | UG LB Lab |
| Spring 2021 | P&amp;N7220  | 7220 | Ion Channels | P&amp;N | Physiology &amp; Neuroscience | 3 | This course explores the role of ion channels in a variety of cell types with an emphasis on both electrophysiological and biochemical methods for evaluation of channel function. | GR LE Lecture |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
<th>Grade/LE/Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>PLS6520</td>
<td>Intl Human Rights</td>
<td>6520</td>
<td>This course examines the role of human rights in international relations. Considered contending definitions of human rights and debates over policy by focusing on thematic issues and case studies.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7250</td>
<td>Advanced Dynamics</td>
<td>7250</td>
<td>...Fundamentals of analytical dynamics from different perspectives applicable to complex systems. Strengths and weaknesses of various approaches. Techniques such as variational principles and Hamiltonian formalism that are significant in various optimization problems.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MBA5200</td>
<td>Survey of Economics</td>
<td>5200</td>
<td>An introduction to economics. Provides students with modes of reasoning regarding individual and business behavior and enhances students' ability to understand the aggregate economy and how it influences business decisions.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6150</td>
<td>Studies in Modern Europe</td>
<td>6150</td>
<td>Examines a variety of countries, topics and periods in European history from the Enlightenment to the present. Topics vary.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART5280</td>
<td>Drawing</td>
<td>5280</td>
<td>Exploration of the structure and interrelationships of visual form in drawing, painting, and sculpture. Principal historical modes of drawing are examined. This course has a fee that is non-refundable once the term begins.</td>
<td>GR LB Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW4730</td>
<td>Child Welfare I</td>
<td>4730</td>
<td>Framework for categorizing child welfare problems. Historical and current examination of legislation, policies, programs, and services to address child welfare needs including the role of the child welfare worker.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7190</td>
<td>Engineering Lubrication</td>
<td>7190</td>
<td>This course is designed to bridge the classroom education and the latest engineering design occurring in the automotive and aerospace industries. This course defines the different lubrication regimes where ...</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY9045</td>
<td>Bayesian Analyses</td>
<td>9045</td>
<td>This course is an introduction to applying Bayesian data analysis. We will cover the necessary probability theory to understand Bayes' rule and to derive posterior distributions for simple models. We will discuss MCMC approaches to estimating posteriors including Gibbs sampling and the basics of Hamiltonian MCMC. In the latter half of the course, we will implement and explore a number of variations of generalized linear models, ranging in complexity from t-tests to hierarchical ordinal regression.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ARA3700</td>
<td>Internship in Arabic</td>
<td>3700</td>
<td>Supervised use of Arabic in workplace settings. Must complete an application available from the Department of Modern Languages. Minimum 45 hours a semester for 1 credit, including at least 40 hours of on-site work. Senior standing and advisor permission required.</td>
<td>UG IN Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4750</td>
<td>Biological Safety</td>
<td>4750</td>
<td>Identification, handling, and containment of potentially hazardous biological materials, including microorganisms and recombinant DNA.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB3050</td>
<td>Addictions &amp; Application</td>
<td>3050</td>
<td>Provides an overview of the historical, attitudinal, social-cultural, and psycho-physiological impact of addictions. Special attention given to emerging abuse and dependency issues and interventions used to address them.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4640</td>
<td>TopicsTech/Prof Writing</td>
<td>4640</td>
<td>Courses, seminars, or workshops in specialized topics relating to business, technical, and professional writing.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL3060</td>
<td>Analytic Philosophy</td>
<td>3060</td>
<td>Survey of the analytic tradition including philosophers such as Frege, Russell, Wittgenstein, Carnap, Quine, Davidson, Kripke, Putnam, and Nagel. Integrated Writing course.</td>
<td>UG LE Lecture</td>
</tr>
</tbody>
</table>
Spring 2021  MT7260  7260  Immunology  MI  Microbiology & Immunology  4  (Also listed as BMS 8020) Fundamentals of immunobiology and basic virology. Emphasis on the regulatory and cellular level of host immune responses against microbial pathogens, as well as mechanisms of immunopathology, and on the characteristics and molecular biology of virus pathogens.  GR  LR  Lecture/Recitation Combination

Spring 2021  ED5050  5050  MCE Gen Science Instr  ED  Education  3  Methods for teaching middle level science pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula, and materials suitable for teaching fourth through sixth grade science education.  GR  LE  Lecture

Spring 2021  ED6250  6250  MCE Intern Pt I Methods  ED  Education  1  Candidates, mentored by a middle grades teacher, shall assist in the planning, organizing, delivering, and assessing of instruction in a 4-9th grade setting applying pedagogical content knowledge from middle childhood content and methods courses.  GR  IN  Internship

Spring 2021  KNH1180  1180  Dance: Swing  KNH  Kinesiology & Health  1  Fundamental skills and knowledge of Dance: Swing. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab

Spring 2021  MUS1450  1450  Vocal Ped & Choral Meth  MUS  Music  1  An overview of vocal technique, literature, and performance for the instrumental music education major.  UG  LE  Lecture

Spring 2021  ART4590  4590  Senior Photo Portfolio  ART  Art  3  Exploration of advanced photographic materials and techniques with emphasis on producing a thematic body of work. Investigation of aesthetic possibilities of the media. Development of personal concepts and aesthetic expression in photography. This course has a fee that is non-refundable once the term begins.  GR  LB  Lab

Spring 2021  RHB4070  4070  Prin of Rehab Counseling  RHB  Rehabilitation  3  Focuses on the development of basic skills and attitudes associated with rehabilitation counseling. Interview style and format are examined along with listening and responding techniques associated with holistic approaches.  UG  LL  Lecture/Lab Combination

Spring 2021  PSY8790  8790  Legal Issues in I/O Psy  PSY  Psychology  2  Course will explore established, current, and emerging legal issues in Industrial/Organizational Psychology.  GR  SE  Seminar

Spring 2021  ME3600L  3600L  Exp. Meas. and Instr. Lab  ME  Mechanical and Materials Engr  0  Required laboratory for ME 3600. Integrated Writing course.  UG  LB  Lab

Spring 2021  CHM5990  5990  Special Problems in Chem  CHM  Chemistry  1  GR  IS  Independent Study

Spring 2021  KNH1755  1755  Marathon Training  KNH  Kinesiology & Health  2  Fundamental skills and knowledge of marathon training. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab

Spring 2021  MGT4900  4900  Character & Comp II  MGT  Management  3  Drawing on their management studies, students will integrate essential managerial competencies and their personal strengths to develop a plan for their career as a manager and leader.  UG  LE  Lecture

Spring 2021  EES4960  4960  Senior Thesis Research  EES  Earth & Environmental Sciences  0.5  In consultation with a faculty research advisor, students design a research problem that involves data collection and analysis. Students write a senior thesis in the style of a professional scientific journal. May be taken for a letter grade or pass/unsatisfactory. Integrated Writing course.  UG  IS  Independent Study

Spring 2021  EES4960  4960  Senior Thesis Research  EES  Earth & Environmental Sciences  0.5  In consultation with a faculty research advisor, students design a research problem that involves data collection and analysis. Students write a senior thesis in the style of a professional scientific journal. May be taken for a letter grade or pass/unsatisfactory. Integrated Writing course.  UG  IS  Independent Study

Spring 2021  EDT8950  8950  Adm & Superv of Ed Tech  EDT  Educational Technology  3  Covers leadership theory and networking; qualifications and duties of the director; planning and administering the program; preparing the budget; buying equipment and handling materials; in-service training and evaluation of the program.  GR  LL  Lecture/Lab Combination

Spring 2021  CNL7700  7700  Indep Study Minor Prob  CNL  Counseling  1  Planned reading and/or project under the guidance of a Department of Human Services faculty member.  GR  IS  Independent Study

Spring 2021  MUE2050  2050  Chamber Music  MUE  Music: Ensembles  1  Small chamber ensembles of varying instrumentation. Audition required  UG  LL  Lecture/Lab Combination

Spring 2021  BME6460  6460  Nanomed Fundamentals  BME  Biomedical Engineering  3  The purpose of this introductory course is to provide an overview of the distinctive features of nanotechnology and their application to bio-medical problems. The course contrasts macro/micro/nano to bring out the unique properties of nanotechnology in nanomedicine. Cutting-edge nanomedical technologies for sensing and imaging, drug delivery, and therapeutic applications will be addressed.  GR  LE  Lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Title</th>
<th>Campus Location</th>
<th>Credits</th>
<th>Description</th>
<th>Department</th>
<th>Level</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN3250</td>
<td>3250</td>
<td>Business Spanish I</td>
<td>SPN</td>
<td>Spanish</td>
<td>3</td>
<td>An introduction to the language of business Spanish with emphasis on communicative input and output to build a bridge between the business world and the global economy. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>ENG4990</td>
<td>4990</td>
<td>English Honors Tutorial</td>
<td>ENG</td>
<td>English</td>
<td>2</td>
<td>Second in a two-semester sequence for senior English majors who are doing an English honor.s project.</td>
<td>UG</td>
<td>IS</td>
</tr>
<tr>
<td>MTH4240</td>
<td>4240</td>
<td>Coding Theory</td>
<td>MTH</td>
<td>Mathematics</td>
<td>3</td>
<td>Essentials of error-correcting codes, including methods for efficient and accurate transfer of information.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>PSY9900</td>
<td>9900</td>
<td>Independent Research</td>
<td>PSY</td>
<td>Psychology</td>
<td>1</td>
<td>Research conducted under faculty supervision for students who have completed their Master's thesis.</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>PLS6820</td>
<td>6820</td>
<td>State Legisl Internship</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Students work for a state legislator in Columbus two days per week. They report weekly to the faculty instructor and write an assessment of the experience at the end of the assignment.</td>
<td>GR</td>
<td>IN</td>
</tr>
<tr>
<td>MLB4330</td>
<td>4330</td>
<td>Hematology Practicum</td>
<td>MLB</td>
<td>Medical Laboratory Science</td>
<td>3</td>
<td>Introduction to practical application of hematology techniques at a clinical site.</td>
<td>UG</td>
<td>PR</td>
</tr>
<tr>
<td>TH3720</td>
<td>3720</td>
<td>MT History/Lit I</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Covers history of Musical Theatre from its roots in early lyric theatre and popular variety entertainments to the birth of the modern Book Musical. Reading, viewing and discussion of significant examples from major periods while studying historical, artistic and social contexts for these works.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>REL5200</td>
<td>5200</td>
<td>Topics in Christianity</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Examination of selected topics related to the history and practice of Christianity.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>SAA6650</td>
<td>6650</td>
<td>Career Program &amp; Service</td>
<td>SAA</td>
<td>Student Affairs in Higher Ed</td>
<td>2</td>
<td>Learn to develop effective career development programs and services for use with individuals and groups including diverse populations. Applying career development ethical standards and guidelines to client cases will be emphasized.</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>SOC4640</td>
<td>4640</td>
<td>Gender and Sexuality</td>
<td>SOC</td>
<td>Sociology</td>
<td>3</td>
<td>Explores gender and sexuality constructions from a global perspective. Topics include the effects of globalization, colonization and imperialism, as well as transnational feminism and LGBTQIA activism.</td>
<td>UG</td>
<td>LE</td>
</tr>
<tr>
<td>EE6620L</td>
<td>6620L</td>
<td>Dig Integ Ckt Design Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Realizations, testing and evaluation of digital integrated circuits with particular emphasis on programmable logic devices.</td>
<td>GR</td>
<td>LB</td>
</tr>
<tr>
<td>ME7340</td>
<td>7340</td>
<td>Computational Fluid Dyn</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Introduction to modern computational fluid dynamic (CFD) methods. Survey of current numerical procedures to solve fluid dynamic problems from incompressible to hypersonic flows. 3 hours lecture, 2 hours lab.</td>
<td>GR</td>
<td>LL</td>
</tr>
<tr>
<td>Quarter</td>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Notes</td>
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<tr>
<td>Spring 2021</td>
<td>ATH5020</td>
<td>5020</td>
<td>Peoples/Cultures So Asia</td>
<td>ATH Anthropology 3</td>
<td>An introduction to the variety of people living in Southern Asia, particularly India, Pakistan, Bangladesh and Sri Lanka. Investigates various cultural, environmental, religious, ethnic and national groupings, while attempting to uncover unity behind the great diversity of the subcontinent.</td>
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<tr>
<td>Spring 2021</td>
<td>PSY8780</td>
<td>8780</td>
<td>Organizational Theory</td>
<td>PSY Psychology 2</td>
<td>Seminar with in-depth coverage of organizational theory.</td>
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<tr>
<td>Spring 2021</td>
<td>ISE3511L</td>
<td>3511L</td>
<td>Bioelectronics I Lab</td>
<td>ISE Industrial &amp; Systems Engr 0</td>
<td>Required Laboratory for ISE 3511.</td>
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<tr>
<td>Spring 2021</td>
<td>CHM6020L</td>
<td>6020L</td>
<td>Adv Environ Chem &amp; Analy Lab</td>
<td>CHM Chemistry 0</td>
<td>Required laboratory for CHM 6020.</td>
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<tr>
<td>Spring 2021</td>
<td>CEG7350</td>
<td>7350</td>
<td>Computer Architecture</td>
<td>CEG Computer Engineering 3</td>
<td>Review of sequential computer architectures and study of parallel computer architectures. Topics include instruction-level parallelism, multiprocessor systems, memory hierarchy, pipeline processing, and interconnection networks. Department Managed Prerequisite(s): Undergraduate level CEG 4350 Minimum Grade of D or Graduate level CEG 6350 Minimum Grade of D.</td>
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<tr>
<td>Spring 2021</td>
<td>AES3340</td>
<td>3340</td>
<td>ICL Lab</td>
<td>AES Aerospace Studies 0</td>
<td>Application of leadership/management concepts learned in Field Training and in previous Aerospace Studies courses and labs to assist in training the GNC cadets. Requires participation in two weekly physical training sessions.</td>
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<tr>
<td>Spring 2021</td>
<td>EES6440</td>
<td>6440</td>
<td>Geophys Well Log Analay</td>
<td>EES Earth &amp; Environmental Sciences 3</td>
<td>Theory, application, and interpretation of geophysical logs with emphasis on their use in correlation and determination of porosity, permeability, and fluid content of subsurface formations. Theory and determination of porosity, permeability, and fluid content of subsurface formations. Three hours lecture.</td>
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<tr>
<td>Spring 2021</td>
<td>EES6500</td>
<td>6500</td>
<td>Carbonate Sed &amp; Petrolog</td>
<td>EES Earth &amp; Environmental Sciences 4</td>
<td>An introduction to the origin, composition, and diagenesis of ancient and modern carbonate rocks. Topics include the macroscopic and microscopic identification of rock constituents and a survey of depositional models for modern carbonate environments, with an emphasis on Floridian and Bahamian carbonates facies. Four hours lecture/lab combination.</td>
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<tr>
<td>Spring 2021</td>
<td>P&amp;N6690</td>
<td>6690</td>
<td>Quant Aspct Mem Trans</td>
<td>P&amp;N Physiology &amp; Neuroscience 2</td>
<td>Employs a quantitative approach to the properties of solutes, water, bio-electrical phenomena, the properties of transport systems that move solutes among biological membranes, and the interactions of these solutes with membranes. Completion of calculus, cell biology, and cellular physiology and biophysics required. May be taken for letter grade or pass/unsatisfactory.</td>
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<tr>
<td>Spring 2021</td>
<td>URS4490</td>
<td>4490</td>
<td>Issue in City&amp;Community Dvlpment</td>
<td>URS Urban Affairs 3</td>
<td>Explores issues that impact city and community development as well as the impact of development. Topics include pollution, international development, housing and transportation.</td>
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<tr>
<td>Spring 2021</td>
<td>ARA1010</td>
<td>1010</td>
<td>Beginning Arabic I</td>
<td>ARA Arabic 3</td>
<td>Communicative introduction to Arabic. Study of the vocabulary and structure of the Arabic language; practice in speaking, listening, reading, and writing.</td>
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<tr>
<td>Spring 2021</td>
<td>PSI8070</td>
<td>8070</td>
<td>Clinical Neuropsychology</td>
<td>PSI Professional Psychology 3</td>
<td>The course is intended to provide individuals with a broad understanding of the field of human neuropsychology and the study of brain-behavior relationships within a clinical context. The course will introduce students to models of higher cortical functioning, education and training issues within the field, behavioral neuroanatomy, and issues of normal and abnormal cognitive functioning. While the areas of assessment and intervention will be discussed, neuropsychological assessment strategies will be covered in greater detail in the neuropsychological assessment course.</td>
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<tr>
<td>Spring 2021</td>
<td>CHM4490</td>
<td>4990</td>
<td>Special Prob Chemistry</td>
<td>CHM Chemistry 1</td>
<td>Examination of specific problems or issues in chemistry.</td>
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<tr>
<td>Spring 2021</td>
<td>EE6800</td>
<td>6800</td>
<td>Grad Special Topics EE</td>
<td>EE Electrical Engineering 1</td>
<td>Graduate special topics in electrical engineering. Topics vary.</td>
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<tr>
<td>Spring 2021</td>
<td>EE4170</td>
<td>4170</td>
<td>Digital Control Sys</td>
<td>EE Electrical Engineering 3</td>
<td>Samples spectra and aliasing, analysis and design of digital control systems using root locus and transform techniques; discrete equivalents of continuous controller and quantization effects.</td>
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<tr>
<td>Spring 2021</td>
<td>TH3010</td>
<td>3010</td>
<td>Intro Theatrical Design</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Explores the collaborative process between director and designers, which results in a specific visual approach to a production. Emphasizes designer progression from script analysis and research to realization of the design.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7104</td>
<td>7104</td>
<td>Adv Hlth Assmt Lifespan</td>
<td>NUR</td>
<td>Nursing</td>
<td>3</td>
<td>Application of cognitive processes and psychomotor skills needed for comprehensive health assessment. Emphasis is on health history; physical, developmental, and nutritional assessment; and identification of common client problems across the life span.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PPH7510</td>
<td>7510</td>
<td>Strat Lead Health Care</td>
<td>PPH</td>
<td>Population &amp; Public Health</td>
<td>3</td>
<td>This course will introduce students to concepts, principles, and practices of strategic management in multiple health care settings. Case studies will be used from the health care industry as well as other business sectors to expose students to the field of organizational behavior. Students will develop their knowledge in areas including negotiation, leadership, organizational design and culture, how people work in organizations, quality improvement, communication, stakeholder and SWOT analysis, and current approaches to the development of strategic plans.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6560</td>
<td>6560</td>
<td>ILA Capstone</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Study of the integration and pedagogy of reading, writing, listening, speaking, viewing, and visually representing. Emphasis on responding to literature and introduction to interdisciplinary and thematic units. Department Managed Prerequisite(s): (Undergraduate level ENG 3520 Minimum Grade of C or Graduate level ENG 6520 Minimum Grade of C) and (Undergraduate level ENG 3530 Minimum Grade of C or Graduate level ENG 6530 Minimum Grade of C) and Undergraduate level ENG 3560 Minimum Grade of C and (Undergraduate level ENG 3570 Minimum Grade of C or Graduate level ENG 6570 Minimum Grade of C)</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LE1000</td>
<td>1000</td>
<td>Intro to Law Enforcement</td>
<td>LE</td>
<td>Law Enforcement</td>
<td>3</td>
<td>Functions of law enforcement, community policing, patrol, traffic enforcement and criminal law.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDT7340</td>
<td>7340</td>
<td>SLM Internship</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>1</td>
<td>Supervised field experience in school library for advanced track licensure candidates (one week on-site all day).</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4170</td>
<td>4170</td>
<td>Mechanics of Composites</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Introduce composites as an engineering material and emphasize the basic concepts of their nature and mechanical properties. Micromechanics and macromechanics and lamination theory of composites will be emphasized.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4160</td>
<td>4160</td>
<td>Sex and the Law</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Addresses how government uses law to regulate sex as activity, expression, and identity. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE3540L</td>
<td>3540L</td>
<td>Intro to Comp for ISE Lab</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
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<td>Spring 2021</td>
<td>CNL6610</td>
<td>6610</td>
<td>Principles of Counseling</td>
<td>CNL</td>
<td>Counseling</td>
<td>3</td>
<td>Introduction and overview of major counseling principles, theories, techniques, historical foundations, and services. Also, addresses counseling specialties and professional organizations.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>EE4780</td>
<td>4780</td>
<td>Coding Theory</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Essentials of error-correcting codes, including methods for efficient and accurate transfer of information. Perfect and related codes, linear and cyclic codes, BCH codes, Reed-Muller codes, Reed-Solomon codes, Self-dual codes, weight enumerators and bounds.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>TH3280</td>
<td>3280</td>
<td>Decorative Style: Ages</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
<td>Development of dominant characteristics of the history of architecture, furniture, and ornamental design and how they relate to abstract elements of taste, design, composition, and color.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>ME2600</td>
<td>2600</td>
<td>Metallography</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>1</td>
<td>Experimental methods characterizing the microstructure of solids. Emphasis on optical microscopy and the effects of processing on properties and microstructure. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D (ME 2600 can be taken concurrently).</td>
<td>UG</td>
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<td>Spring 2021</td>
<td>EES1030L</td>
<td>1030L</td>
<td>Paleobiology Dinosaurs Lab</td>
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<td>Earth &amp; Environmental Sciences</td>
<td>0</td>
<td>Required laboratory for EES 1030.</td>
<td>UG</td>
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<td>EC4830</td>
<td>4830</td>
<td>Independent Reading</td>
<td>EC</td>
<td>Economics</td>
<td>1</td>
<td>Independent study in economics or allied disciplines.</td>
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<td>Spring 2021</td>
<td>CHM3520</td>
<td>3520</td>
<td>Physical Chemistry II</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3</td>
<td>Theoretical aspects of chemistry including quantum chemistry, spectroscopy and statistical mechanics.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>CHM2110L</td>
<td>2110L</td>
<td>Organic Chemistry Lab I</td>
<td>CHM</td>
<td>Chemistry</td>
<td>2</td>
<td>Laboratory illustrations of CHM 2110 lecture material and techniques of preparative organic chemistry.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>PLS3560</td>
<td>3560</td>
<td>Politics Society France</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>The historic interaction of French culture and politics. Growth of the French nation and state, French society, the nature of modern politics and institutions, and France's role in world affairs. Integrated Writing course.</td>
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<td>Course Code</td>
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<td>ASM6430</td>
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<td>Improving Rdg: Mus Cntn Area</td>
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<td>EES</td>
<td>Earth &amp;</td>
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<td>2.0</td>
<td>New Religious Mov Amer</td>
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<td>Adv. Writing in German</td>
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**Notes:**
- Spring 2021 courses and credits are listed.
- Course codes and titles are provided.
- Instructor names are included where applicable.
- Course descriptions and prerequisites are not included.
- The table format is used to organize the information.
<p>| Spring 2021 | EDS2700 | 2700 | Cultural Exploration | EDS | Education - Special Education | 1 | Using tutoring experiences to explore community differences in language and culture and the impact of these on the growth of development of students with exceptional learning needs. Seminar discussions required. | UG | SE | Seminar |
| Spring 2021 | EDS7200 | 7200 | Field Experience I Interv Spec | EDS | Education - Special Education | 1 | Introduces students to the educational process through participation in a classroom and through an examination of classroom dynamics within a natural setting. | GR | PR | Practicum |
| Spring 2021 | PLS6060 | 6060 | Globalization | PLS | Political Science | 3 | Focuses on the economic aspects of globalization and effects on local, national, and international political processes. | GR | LE | Lecture |
| Spring 2021 | EE4420L | 4420L | Microwave Egr I Lab | EE | Electrical Engineering | 1 | Hands-on experience with microwave devices, microwave testing equipment and representative microwave systems.  | UG | LB | Lab |
| Spring 2021 | EES6350 | 6350 | Field Mapping | EES | Earth &amp; Environmental Sciences | 2 | Geologic phenomena studied and mapped in the field. Mapping techniques are utilized in a series of areas of increasing complexity. Standard methods are utilized for observing, describing, interpreting and mapping rock units and their structure. | GR | LL | Lecture/Lab Combination |
| Spring 2021 | MLB4111 | 4111 | Orientation MLS Lab | MLB | Medical Laboratory Science | 0.5 | Application of lab safety, universal precautions, specimen collection, quality assurance, phlebotomy, and other techniques fundamental to medical laboratory. | UG | LB | Lab |
| Spring 2021 | BMB4400 | 4400 | Human Microbiome | BMB | Biochem &amp; Molecular Biology | 3 | This course will examine human-associated microbiome. We will see what kind of organisms live in partnership with us, what they do, how their functions affect our health and well being, and how the alterations to this microbiome can be linked to a variety of human diseases and maladies. In addition, in the laboratory part of the course, each student will profile their personal microbiome community of choice (or the standard microbiome sample). Students will learn the experimental approaches to the interrogation of microbiota, will isolate, amplify, and purify 16S rDNA, and then isolate high-throughput sequencing data. Thus, you will find out which specific kinds of microbes live in association with you; discuss communities of microbes living in associations with human bodies, how infants acquire microbes, which functions these microbes perform, and which human diseases are associated with microbiota disbalance. | UG | LE | Lecture |
| Spring 2021 | KNH1210A | 1210A | Fencing: Intermediate | KNH | Kinesiology &amp; Health | 1 | Intermediate level of skills and knowledge in Fencing: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate. | UG | LB | Lab |
| Spring 2021 | CHM2120 | 2120 | Organic Chemistry II | CHM | Chemistry | 3 | Principles, theories, and applications of the chemistry of carbon compounds. | UG | LE | Lecture |
| Spring 2021 | ME7690 | 7690 | Vibe Test &amp; Hlth Mon | ME | Mechanical and Materials Engr | 3 | Advanced theoretical and practical aspects of vibration testing including: signal analysis, windowing, transducers, exciters, modal identification techniques, rotor dynamics, and machine health monitoring. Includes extensive independent lab study. | GR | LL | Lecture/Lab Combination |
| Spring 2021 | EDL8610 | 8610 | Principal Prog: Entry | EDL | Educational Leadership | 1 | Candidates investigate various contemporary educational leadership topics and issues: content knowledge, pedagogical content knowledge, diversity, technology, professionalism, emotional intelligence, and/or others. | GR | SE | Seminar |
| Spring 2021 | NEU4990 | 4990 | Ind Research Neurosci | NEU | Neuroscience | 1 | Students will actively participate in neuroscience research opportunities and gain proficiency in techniques used to study various aspects of neuroscience. | UG | IS | Independent Study |
| Spring 2021 | ME6830 | 6830 | Comp Materials Science | ME | Mechanical and Materials Engr | 3 | This course covers basic theories, methods and algorithms of atomic computer simulations of materials, using lectures and computer labs. Classical, semi-empirical, and ab initio quantum mechanical methods are explained. | GR | LL | Lecture/Lab Combination |
| Spring 2021 | MTH7520 | 7520 | Algebra II | MTH | Mathematics | 4 | Rings and modules: Noetherian rings and modules, Artinian rings and modules, and Wedderburn-Artin structure theory. Field theory—simple extensions, Galois theory, solvability by radicals, cyclotomy, finite fields, and Wedderburn's theorem. | GR | LE | Lecture |
| Spring 2021 | PSY7990 | 7990 | Thesis Research | PSY | Psychology | 1 | Research conducted for the M.S. thesis. Research must be approved by supervisory committee, submitted in writing and defended by public oral examination. | GR | IS | Independent Study |
| Spring 2021 | PHY7520 | 7520 | Mol. Spectra &amp; Structure | PHY | Physics | 3 | Theory of molecular spectra and structure with examination of experimental data as related to molecular spectra. Applications to the detection and analysis of molecules. | GR | SE | Seminar |</p>
<table>
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<tr>
<th>Semester</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Department</th>
<th>Type</th>
<th>Description</th>
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<td>Spring 21</td>
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<td>Seminar</td>
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<td>Spring 21</td>
<td>LDR4600</td>
<td>Ind Study in Leadership</td>
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<td>Independent Study</td>
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<td>Spring 21</td>
<td>PPH7720</td>
<td>Global Health Systems</td>
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<td>ME7400</td>
<td>Hypersonic Flows</td>
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<td>Spring 21</td>
<td>HUM7000</td>
<td>Grad Res Methods in Hum</td>
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<td>Spring 21</td>
<td>FAS2030</td>
<td>Intro Animal Science</td>
<td>2030</td>
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<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>Spring 21</td>
<td>PSY4910</td>
<td>Psychobio of Stress Cap</td>
<td>4910</td>
<td>PSY</td>
<td>SE</td>
<td>Seminar</td>
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<td>Spring 21</td>
<td>BIO4430</td>
<td>Vertebrate Histology</td>
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<td>BIO</td>
<td>LE</td>
<td>Lecture</td>
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<td>EE7520</td>
<td>Low Pwr VLSI Sys Des</td>
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<td>Spring 21</td>
<td>PSY4500</td>
<td>Social Psych Cap</td>
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<td>Spring 21</td>
<td>FR4920</td>
<td>Occupation Cinema</td>
<td>4920</td>
<td>FR</td>
<td>LE</td>
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<td>Spring 21</td>
<td>MIS7300</td>
<td>Ent Data and Res Mgmt</td>
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<td>LE</td>
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<td>Spring 21</td>
<td>PHY7400</td>
<td>Nucl. Methods in Physics</td>
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<td>Spring 21</td>
<td>PLS7990</td>
<td>Graduate Thesis Research</td>
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<td>IS</td>
<td>Independent Study</td>
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<td>Spring 21</td>
<td>HUM7400</td>
<td>Humanities Thesis</td>
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<td>IS</td>
<td>Independent Study</td>
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<td>Spring 21</td>
<td>EC4450</td>
<td>Political Econ of Women</td>
<td>4450</td>
<td>EC</td>
<td>LE</td>
<td>Lecture</td>
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</table>

This course focuses on the qualitative research process from research topic, design, implementation, analyses, and findings. Included is emphasis on the researcher as the research instrument and exploration of theoretical frameworks.

This course provides an overview to the institutional, economic, epidemiological, ideological, social, and political forces that shape global health systems. A health system includes all organizations, people and actions that promote, restore or maintain health. A health system incorporates efforts to influence determinants of health as well as more direct health improving activities. Students will investigate best-practices approaches to health systems both at national and global levels.

Hypersonic flow is studied from the viewpoint of its unique fluid dynamic attributes with emphasis on classic inviscid theories, chemical kinetics, and state-of-the-art development. Department Managed Prerequisite(s): Undergraduate level ME 4330 Minimum Grade of D or Graduate level ME 6330 Minimum Grade of D.

An introduction to graduate research in the humanities with primary emphasis on research writing.

Fundamentals of livestock production, including feeding and nutrition, reproductive physiology, selective breeding, health, management, and marketing of major and minor species.

Communication-intensive seminar integrating knowledge on the psychobiology of stress. Students will become familiar with original scientific literature on the psychobiology of stress, how physiological systems respond to psychogenic stressors, and the current thinking on stress-related health disorders. Integrated Writing course.

Study of structure/function relationships in vertebrate tissues, organs and organ systems.

CMOS VLSI subsystems and low-power subsystems design. Includes data path operators for FIR and IIR filter design: counters, high-speed adders, multipliers, and memory elements. Department Managed Prerequisite(s): Undergraduate level EE 4540 Minimum Grade of D and Undergraduate level EE 4540L Minimum Grade of D or (Graduate level EE 6540 Minimum Grade of D and Graduate level EE 6540L Minimum Grade of D).

Integrated Writing course.

Writing course.

Introduces the important topics in Enterprise Resource Planning (ERP). Identify important ERP concepts, advantages and disadvantages and success and failures of ERP implementations; use a commercial ERP package; understand RFID and Auto-ID technology and assess the potential of the RFID in the supply chain automation process. This course has a fee that is non-refundable once the term begins.

Topics in the application of nuclear structure, nuclear processes, and energy loss processes to physical measurement and research. Radiation damage. Particle scattering. Gamma, alpha and beta spectroscopy. Energy loss spectroscopies.

Research for Master's Thesis.

Master's thesis under the direction of a three-member faculty committee.

Provides feminist understanding of women's economic roles and contributions in the context of globalization. Explores importance of social location - race, gender, class, nationality - in economic processes shaping family life, paid employment, and international market relations.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Department/Field</th>
<th>Units</th>
<th>Type</th>
<th>Lecture/Lab</th>
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<td>7136</td>
<td>Instruments of Radiation Measurements</td>
<td>Biomedical Engineering</td>
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<td>Computer Engineering</td>
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<td>Spring 21</td>
<td>CS2200</td>
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<td>Faith &amp; Reason</td>
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<td>Earth &amp; Environmental Sciences</td>
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<td>SPN3220</td>
<td>Adv SPN Conv and Writing</td>
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<td>Conversational and writing techniques and grammar review; literary and/or film and/or media analysis incorporating targeted grammar, vocabulary, and stylistic devices. Taught in Spanish.</td>
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<td>Lecture</td>
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<td>MTH3480</td>
<td>Calculus Mid Schl Tchr</td>
<td>3</td>
<td>Explores the big ideas in calculus -- limit, derivative, and integral -- with the goal of a solid conceptual understanding. Emphasizes applications, connections to algebra, and how these concepts appear in middle school math classrooms.</td>
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<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>International Management</td>
<td>3</td>
<td>Course provides an understanding of how firms identify, develop and execute different types of international strategies. We have three primary objectives: One, what influences the success and failure of firms in the international context? Two, in the global economy of the 21st century, competition is increasingly shaped by the presence of firms from a variety of national contexts. Three, the nature of competition faced by firms is therefore not only more fierce, but also more culturally diverse.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ABS7800</td>
<td>Continuing Registration</td>
<td>0.5</td>
<td>Continuing Registration.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISE3940</td>
<td>Indus &amp; Sys Eng Instr I</td>
<td>1</td>
<td>Industrial and systems engineering internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 2nd year courses as listed in the program guide. Minimum of 10 hours per week for each credit hour registered. A minimum total of 450 hours of work is required for 3 credits of technical elective credit.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LAT4810</td>
<td>Independent Reading</td>
<td>1</td>
<td>Reading and discussion of selected works of Latin literature with emphasis on grammatical, rhetorical, literary, and cultural analysis and criticism. Topics vary.</td>
<td>UG</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT3210</td>
<td>Human Resources Mgt</td>
<td>3</td>
<td>Overview of human resource (HR) functions and policies, including environment of HR (including legal), recruiting and selection of employees, training and development, compensation and benefits, labor and employee relationship.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS5180</td>
<td>Comparative Languages</td>
<td>3</td>
<td>This course introduces fundamental concepts and paradigms underlying modern programming languages, to enable better appreciation, comparison and evaluation of languages. For concreteness, it covers the details of an object-oriented language, a functional language, a logic language, and a multi-paradigm scripting language. Basics of interpreters and compilers explored through programming assignments. Department Managed Prerequisite(s): Undergraduate level CS 3100 Minimum Grade of D or Graduate level CS 5100 Minimum Grade of D.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0480</td>
<td>LEAP Test Preparation</td>
<td>0.5</td>
<td>This course is designed to help non-native students of English prepare for standardized English tests such as the TOEFL and IELTS. The course includes strategies for test-taking in addition to practice exams with feedback. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES7800</td>
<td>MST Research</td>
<td>0.5</td>
<td>Research designed for specific needs and talents of students at the graduate level in the MST program. May be taken for a letter grade or pass/unsatisfactory.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS4720</td>
<td>IS Internship Part 1</td>
<td>1</td>
<td>Candidates, mentored by an educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a K-12th grade setting applying pedagogical content knowledge from content and methods courses.</td>
<td>UG</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TTW6470</td>
<td>TTW Int: Career Assess</td>
<td>1</td>
<td>Students assigned to an experienced career assessment professional in the field for observing, discussing, researching, and practicing skills in the area of career assessment, particularly those related to transition of individuals with disabilities.</td>
<td>GR</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME4430</td>
<td>Aeronautics</td>
<td>3</td>
<td>Aviation history. Standard atmosphere, basic aerodynamics, theory of lift, airplane performance, principles of stability and control, and astronautics and propulsion concepts. Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6300</td>
<td>Abnormal Psych Cap</td>
<td>3</td>
<td>Writing and oral communication intensive seminar integrating knowledge on select topics within Abnormal Psychology. Topic will vary.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Schedule</td>
<td></td>
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<tr>
<td>ME4680</td>
<td>4.5</td>
<td>Experimental Nanoscience</td>
<td>ME Mechanical and Materials Engr</td>
<td>Department Managed Prerequisite(s): (Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 1120 Minimum Grade of D and Undergraduate level PHY 2410 Minimum Grade of D and Undergraduate level PHY 2410L Minimum Grade of D)&lt;br&gt;</td>
<td>UG PKG Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDT7120</td>
<td>3</td>
<td>Gamification</td>
<td>EDT Educational Technology</td>
<td>Department Managed Prerequisite(s): Graduate level EDT 7860 Minimum Grade of D&lt;br&gt;</td>
<td>GR LL Lecture/Lab Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR7005</td>
<td>2</td>
<td>Nur Res &amp; Evid for Pract</td>
<td>NUR Nursing</td>
<td>Critical analysis of the components, methodology, and state of the art of research for nursing to plan change for best practice&lt;br&gt;</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STT6260</td>
<td>6</td>
<td>Survival Analysis</td>
<td>STT Statistics</td>
<td>Censoring and truncation, survival and hazard functions, estimation and hypothesis tests, Cox proportional hazards model; diagnostics of the Cox model; state-of-the-art software for survival analysis models.&lt;br&gt;</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY4530</td>
<td>4.5</td>
<td>Psychology and Law Capstone</td>
<td>PSY Psychology</td>
<td>Communication-intensive seminar integrating knowledge within forensic psychology. Integrated Writing course.&lt;br&gt;</td>
<td>UG SE Seminar</td>
<td></td>
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</tr>
<tr>
<td>GER3120</td>
<td>3</td>
<td>German Conversation II</td>
<td>GER German</td>
<td>Practice in oral use of German emphasizing the culture of the German-speaking world.&lt;br&gt;3.0 Credit hours.&lt;br&gt;</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL5790</td>
<td>5.75</td>
<td>Topics in Greco-Rom Rels</td>
<td>REL Religion</td>
<td>Examination of selected topics related to the practice of religion in the Greco-Roman world.&lt;br&gt;</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFS4000</td>
<td>4</td>
<td>Service Experience</td>
<td>AFS Afr /Afr Amer Studies</td>
<td>Field placement of students in community organizations, social service agencies, and governmental entities where they will engage in work that relates to and enhances their understanding of the African American experience.&lt;br&gt;</td>
<td>UG IN Internship</td>
<td></td>
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</tr>
<tr>
<td>SLI3600</td>
<td>3.5</td>
<td>Adv Sign to Voice Interpreting</td>
<td>SLI Sign Language Interpreting</td>
<td>Advancement of skills in producing equivalent spoken English messages in natural, idiomatic language from signed source messages: Continuation of English and ASL vocabulary development, interpreting analysis skills, and strategies for team interpreting.&lt;br&gt;</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS8990</td>
<td>8.99</td>
<td>Continuing Registration</td>
<td>BMS Biomedical Sciences</td>
<td>Fundamentals of Quality Control and Quality Assessment for analysis of environmental samples.&lt;br&gt;</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EES4310</td>
<td>4.31</td>
<td>QA of Environmental Analysis</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>Knowledge, skills and dispositions required of the entry-level Certified Athletic Trainer to properly evaluate and refer medical conditions that may occur in athletic training.&lt;br&gt;</td>
<td>UG LL Lecture/Lab Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATR4860</td>
<td>4.86</td>
<td>Medical Conditions in AT</td>
<td>ATR Athletic Training</td>
<td>Introduction to the basic principles and applications of statistical methods as they are applied to data arising in the health professions.&lt;br&gt;</td>
<td>UG CL Clinical</td>
<td></td>
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</tr>
<tr>
<td>PTX7600</td>
<td>7.69</td>
<td>Biostats for Health Prof</td>
<td>PTX Pharmacology/Toxicology</td>
<td>Fundamental concepts and applications of physics designed for early childhood education majors. Topics are integrated with mathematics and include laboratory experiences, demonstrations, and projects. Students may use either PHY 2450 or PHY 2460, but not both courses, to satisfy the requirements of the WSU Core.&lt;br&gt;</td>
<td>UG LL Lecture/Lab Combination</td>
<td></td>
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</tr>
<tr>
<td>SLI1300</td>
<td>1.3</td>
<td>Translation &amp; Texts</td>
<td>SLI Sign Language Interpreting</td>
<td>Analysis of spoken and signed texts for both meaning and form, comparing and contrasting the differences between ASL and English texts with an emphasis on discourse markers, register, topic shift, tense, pronominalization and affect.&lt;br&gt;</td>
<td>UG LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>ME1040</td>
<td>10.4</td>
<td>EGR Design &amp; Solid Model</td>
<td>ME Mechanical and Materials Engr</td>
<td>Fundamentals of blue-print reading, technical sketching, mechanical drawing, CAD, modeling and prototyping and computer-assisted analysis. Topics include safety, ethics, product liability, teamwork and personal responsibilities. Prepares students for the CATI Certified Solidworks Associate (CSWA) certification exam. Communication skills and economic considerations are stressed.&lt;br&gt;</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>CRN</td>
<td>Title</td>
<td>Description</td>
<td>Credits</td>
<td>Type</td>
<td>Schedule</td>
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<tr>
<td>ENG3230</td>
<td>3230</td>
<td>British Texts: to 21st C</td>
<td>Representativeworksofimportaboriouswritersfromthemiddleofthe19thcenturythroughthebeginningofthe21stcentury.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>DMV1020</td>
<td>1020</td>
<td>DMV Registration</td>
<td></td>
<td>0.5</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MUS6800</td>
<td>6800</td>
<td>Workshops in Music</td>
<td>Selectedtopicsorproblemsinmusic,orspecialareasofmusicteaching.Titlesvary.</td>
<td>1</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>CEG3320L</td>
<td>3320L</td>
<td>Digital System Design Lab</td>
<td>Required laboratory for CEG 3320. Integrated Writing course.</td>
<td>0</td>
<td>UG</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>ED7840</td>
<td>7840</td>
<td>Inq to Foundations Educ</td>
<td>An inquiry into the historical, philosophical, cultural, and social trends and issues in education in a democratic society</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>SOC6620</td>
<td>6620</td>
<td>Elite Crime</td>
<td>Theoretical and critical examination of the extent, cost, and control of elite crime and deviance.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>HPR3010</td>
<td>3010</td>
<td>Teaching Invasion Games</td>
<td>Models best teaching practices in invasion games such as basketball, soccer, softball, and flag football. Students are required to demonstrate proficiency in sports skills.</td>
<td>3</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>PLS4570</td>
<td>4570</td>
<td>Pol. Developing Nations</td>
<td>Politics, economy, society and international relations of developing nations.</td>
<td>3</td>
<td>UG</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>PSI9560</td>
<td>9560</td>
<td>Rehabilitation Psych</td>
<td>Introduction to the field of rehabilitation psychology focusing on current psychological theories and treatment interventions utilized by rehabilitation psychologists and the role of psychological factors in the treatment of function, psychological, and social impacts of disability.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MUA2220</td>
<td>2220</td>
<td>Applied Music</td>
<td>Open only to Music majors or minors. All students must have auditioned for and have received department approval before registering for applied music.</td>
<td>2</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>EES1030</td>
<td>1030</td>
<td>Paleobiology Dinosaurs</td>
<td>Multidisciplinary investigation into the morphology, classification and identification of the dinosaurs. Environmental, climatic, and geographic conditions on earth during the time of the dinosaurs. Biological principles involved in understanding the origin, evolution, and extinction of the dinosaurs.</td>
<td>4</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>CEG2350L</td>
<td>2350L</td>
<td>OS Concepts and Usage Lab</td>
<td>Required laboratory for CEG 2350.</td>
<td>0</td>
<td>UG</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>SCM4770</td>
<td>4770</td>
<td>Special Studies in SCM</td>
<td>Topics vary.</td>
<td>1</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>PSY4200</td>
<td>4200</td>
<td>Cognitive Psych Cap</td>
<td>Communication-intensive seminar integrating knowledge on cognitive psychology. Topics will vary. Integrate Writing course.</td>
<td>3</td>
<td>UG</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>ART3280</td>
<td>3280</td>
<td>Intermediate Drawing</td>
<td>Development of personal concepts and aesthetic expression in drawing. Emphasis on individualized approach to drawing problems that arise from the work of students. This course has a fee that is non-refundable once the term begins.</td>
<td>3</td>
<td>UG</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>MGT4780</td>
<td>4780</td>
<td>Honors Ind Study in Mgt</td>
<td>Honors: Independent Study in Management</td>
<td>3</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ATR7950</td>
<td>7950</td>
<td>Clinical Practice V</td>
<td>Immersive clinical experience. Culminating experience allowing for mastery of all competencies and proficiencies throughout the athletic training program, including appropriate mental health counseling techniques and professional preparation.</td>
<td>4</td>
<td>UG</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>MGT4200</td>
<td>4200</td>
<td>Positive Gnp &amp; Org Dvpt</td>
<td>Presents basic ideas, philosophies, theories and techniques of organizational development and change. Students will increase in their awareness and understanding of the complex problems an organization faces as it strives to compete in today's and tomorrow's world. They will be given opportunities to develop and practice skills needed to develop groups and organizations.</td>
<td>3</td>
<td>UG</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>REL5730</td>
<td>5730</td>
<td>Genesis</td>
<td>Examines Genesis as the foundation of the Bible in context with cultural tales such as the ancient Mesopotamian creation and flood myths.</td>
<td>3</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>ACC4780</td>
<td>4780</td>
<td>Hon: Ind Study in ACC</td>
<td>Research in accounting for fulfillment of the Honors Program project requirement.</td>
<td>2</td>
<td>UG</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>CHM7440</td>
<td>7440</td>
<td>Struc Concept Org Chem</td>
<td>Study of molecular orbital theory, reactive species, theories of acids and bases, and an introduction to stereochemistry.</td>
<td>2</td>
<td>GR</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PSY6930</td>
<td>6930</td>
<td>Behav Neuro Ed Capstone</td>
<td>Communication-intensive seminar integrating knowledge on behavioral neuroscience education.</td>
<td>3</td>
<td>GR</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td>Grade</td>
<td>Location</td>
<td>Type</td>
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<tr>
<td>EDL8720</td>
<td>8720 Bldg-Level Leadership</td>
<td>3</td>
<td>Developing procedures of administering staff personnel aspects of school operation. Areas of recruitment, selection, induction, appraisal, development, compensation, and motivation are covered.</td>
<td></td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>REL3940</td>
<td>3940 Existentialism</td>
<td>3</td>
<td>Introduction to 20th century philosophical and literary movement. Emphasis on concrete existence and passions over abstract rationality, conception of self as a product of radically free acts of self-creation, affirmation of uncertainty and absurdity as inescapable elements of the human condition, and rejection of traditional ethical systems.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>STT4660</td>
<td>4660 Statistical Methods I</td>
<td>4</td>
<td>Simple linear regression and correlation analysis. Concepts of matrix algebra, the matrix approach for regression and multiple regression. The general linear model. An introduction to generalized linear models and logistic regression. One-way analysis of variance. Statistical software packages will be used. Integrated Writing course.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PLS4930</td>
<td>4930 Contemporary Problems</td>
<td>3</td>
<td>Advanced study in selected topics that frequently include new developments in the methodology or subject matter of the various sub fields of the discipline. Integrated Writing course.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>ENG4940</td>
<td>4940 TESOL Internship</td>
<td>3</td>
<td>Supervision of students teaching English to speakers of other languages.</td>
<td></td>
<td>IN</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>MTH8700</td>
<td>8700 Topics in Mathematics</td>
<td>1</td>
<td>Selected advanced topic or topics in Geometry.</td>
<td></td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>PTTX8006</td>
<td>8006 Case Study Chem Defense</td>
<td>3</td>
<td>This course will provide an opportunity for students to review historical chemical and biological scenarios to evaluate means, methods, motivation and effects of such uses.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PPH7820</td>
<td>7820 Clin Ethics Issues&amp;Case Study</td>
<td>3</td>
<td>This course will introduce the student to a systematic method of clinical case analysis, followed by a survey of major clinical ethical issues. These will include reproductive ethics, shared decision-making and decisional capacity, neonatal and pediatric decision-making, substance abuse and addiction, end of life ethics including medically-assisted dying, and cultural and religious beliefs. Case studies will complement the historical and ethical analysis of each topic.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>DMV1010L</td>
<td>1010L DMV Lab Registration</td>
<td>0</td>
<td>Involves students in the process of researching and writing a senior seminar paper. Integrated Writing course.</td>
<td></td>
<td>LB</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>URS4990</td>
<td>4990 Applied Research Project</td>
<td>3</td>
<td>Study of the physiological and biochemical processes unique to microorganisms and the host response to microbes.</td>
<td></td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>ME6880</td>
<td>6880 Powder Process Materials</td>
<td>3</td>
<td>Fundamental metalurgy and ceramic science of powder processing techniques. Details of current powder processing technology and methods. Hands-on laboratory experience with both metal and ceramic materials.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>SOC6300</td>
<td>6300 International Migr&amp;Integratio n</td>
<td>3</td>
<td>Examines the dynamics of international migration and immigration, immigrant adaptation and incorporation, and the U.S. response to immigration.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>M&amp;H6990</td>
<td>6990 Special Problems in M&amp;I</td>
<td>2</td>
<td>Study of the physiological and biochemical processes unique to microorganisms and the host response to microbes.</td>
<td></td>
<td>IS</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>BMB4700</td>
<td>4700 Molecular Biology of RNA</td>
<td>3</td>
<td>A comprehensive introduction to the diversity of RNA molecules and their biological functions with an emphasis on how cellular processes are regulated by RNA.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>REL3490</td>
<td>3490 Hindu Goddesses</td>
<td>3</td>
<td>Explores conceptualizations of the divine feminine in Hinduism, combines textual, historic, and anthropological resources to understand the nature of the various Hindu goddesses and how they are worshipped.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
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</tr>
<tr>
<td>CEG6230L</td>
<td>6230L Intro Robotics Lab</td>
<td>1</td>
<td>Laboratory supporting EE 6560. Students will experience hands on learning in lab environment.</td>
<td></td>
<td>LB</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>FIN3280</td>
<td>3280 Entrepreneurial Finance</td>
<td>3</td>
<td>Financing of small and medium sized businesses from the perspective of both the entrepreneur and investors. Study how the financing decisions of small and medium sized private companies differ from those of public firms. They will also see how the valuation methods used in Financial Management I are applied in practice.</td>
<td></td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
</tbody>
</table>
Spring 2021  KNH1460A  1460A  Rape Def Strat: Intermed  KNH  Kinesiology & Health  1  Intermediate level of skills and knowledge in Rape Defense Strategies: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.  UG  LB  Lab

Spring 2021  HST7900  7900  Capstone Project  HST  History  1  Capstone project that demonstrates achievement and is a significant contribution to the field (historical editing, exhibit design and creation, public program, documentary film, oral history, advanced processing, etc).  GR  IS  Independent Study

Spring 2021  GER3110  3110  German Conversation I  GER  German  3  Emphasis on the culture of the German-speaking world.  Department Managed Prerequisite(s): Undergraduate level GER 2020 Minimum Grade of D or AP German Language 4.

Spring 2021  DAN2110  2110  Modern Dance II  DAN  Dance  3  Second-year intermediate modern dance technique class for pre-professional dancers. Emphasis on helping students become strong, versatile dancers by expanding their body's range of motion while emphasizing alignment, coordination, strength and flexibility of the torso.

Spring 2021  ART3130  3130  Studies Renaissance Art  ART  Art  3  General surveys and intensive studies of the period, major movements, and artists of the time. Integrated Writing course.  Department Managed Prerequisite(s): Undergraduate level ART 2110 Minimum Grade of D and Undergraduate level ART 2120 Minimum Grade of D.

Spring 2021  BIO5450  5450  Concepts in Bio I for ED  BIO  Biology  3.5  Introduction to biological concepts for Elementary and Middle School education majors. Structured around the National and Ohio State Science Standards and taught from an inquiry perspective. We examine approaches that attempt to teach science as a knowledge-building practice, i.e., by engaging in scientific investigations and participating in scientific practices such as designing an investigation, explanation, and working with scientific models.

Spring 2021  ME4570  4570  Energy Materials  ME  Mechanical and Materials Engr  3  Students will understand the principles and the materials of advanced electrochemical energy storage systems including batteries, fuel cells, and supercapacitors. In this course, students will gain an understanding of material structures, material composition, and material morphologies in relation to applicable properties for electrochemical energy storage and conversion systems. Students will also be introduced to state-of-the-art materials research and development in these systems.  Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and (Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 3750 Minimum Grade of D).

Spring 2021  EDT7160  7160  Issues and Resp in DL  EDT  Educational Technology  3  Examines the issues and responsibilities of using digital technologies. Consideration of issues of intellectual property rights, ethics, managing online reputation, and professional responsibilities.  Department Managed Prerequisite(s): Graduate level EDT 7860 Minimum Grade of D.

Spring 2021  CEG8910  8910  PhD Seminar in CEG  CEG  Computer Engineering  1  Seminar discussion of current research in computer engineering.

Spring 2021  ME5760  5760  Diffusion and Kinetics  ME  Mechanical and Materials Engr  3  Fundamentals of structure property relations in metals and alloys related to transformations and kinetics. Application to recovery and recrystallization, solidification, precipitation strengthening, and displaceable transformations.  Department Managed Prerequisite(s): Undergraduate level ME 3750 Minimum Grade of D or Graduate level ME 3750 Minimum Grade of D.


Spring 2021  BME4350  4350  Comp Neuroerg & Hlth App  BME  Biomedical Engineering  3  Principles and application of computational methods and technologies to neuroergonomics and neuroengineering; analysis of applications related to brain-system interface and augmented sensory perception; articulation of various methods of non-invasive neuroscience measurements.

Spring 2021  SCM7940  7940  Tot Qual Mgt & Lean Sup  SCM  Supply Chain Management  3  Process and quality improvement, Six Sigma principles, value stream mapping. Baldridge assessment, benchmarking performance measurement and lean principles. This course has a fee that is non-refundable once the term begins.

Spring 2021  EE7630  7630  Stochastic Signal Proc  EE  Electrical Engineering  3  Processing, techniques for stochastic signals. Parametric and nonparametric spectral estimation. Introduction to adaptive systems, to adaptation with stationary signals, and to adaptive algorithms and structures.  Department Managed Prerequisite(s): Graduate level EE 7610 Minimum Grade of D.

Spring 2021  ECE3000  3000  Dev Effective Phil & App  ECE  Education - Early Childhood  3  Culturally responsive, developmentally and age appropriate practices based on a framework of theoretical research, current pedagogy for early childhood (birth-age-8) and alignment to state and national early childhood guidelines. Integrated Writing course.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Department</th>
<th>Type</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Spring 21</td>
<td>CEG6450</td>
<td>6450</td>
<td>Sensor Net and Systems</td>
<td>CEG</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>BIO3520</td>
<td>3520</td>
<td>Human Biomechanics</td>
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<td>Lecture</td>
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<td>Spring 21</td>
<td>REL5440</td>
<td>5440</td>
<td>Hinduism</td>
<td>REL</td>
<td>GR</td>
<td>Lecture</td>
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<td>Spring 21</td>
<td>TH2500</td>
<td>2500</td>
<td>Script Analysis</td>
<td>TH</td>
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<tr>
<td>Spring 21</td>
<td>BIO7890</td>
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<td>Continuing Registration</td>
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<td>Spring 21</td>
<td>MGT4250</td>
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<td>Comp &amp; Benefits</td>
<td>MGT</td>
<td>UG</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>REL5640</td>
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<td>Religion &amp; Pol in Amer</td>
<td>REL</td>
<td>GR</td>
<td>Lecture</td>
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<td>Spring 21</td>
<td>KNH1770A</td>
<td>1770A</td>
<td>Water Safety Instruction</td>
<td>KNH</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>Spring 21</td>
<td>NUR8800</td>
<td>8800</td>
<td>Sys Thng to Adv Pop Health</td>
<td>NUR</td>
<td>GR</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MKT7820</td>
<td>7820</td>
<td>Mktg Analytics: Tools</td>
<td>MKT</td>
<td>GR</td>
<td>Lecture</td>
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<td>Spring 21</td>
<td>EDL7760</td>
<td>7760</td>
<td>Sup of Instr &amp; Personnel</td>
<td>EDL</td>
<td>GR</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>Spring 21</td>
<td>MUA7200</td>
<td>7200</td>
<td>Applied Music</td>
<td>MUA</td>
<td>GR</td>
<td>Independent Study</td>
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<td>Spring 21</td>
<td>BIO4520</td>
<td>4520</td>
<td>Exercise Pharmacology</td>
<td>BIO</td>
<td>UG</td>
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<td>Spring 21</td>
<td>PSY3710</td>
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<td>Perception</td>
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<td>UG</td>
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<td>Spring 21</td>
<td>PSY6941</td>
<td>6941</td>
<td>Animal Beh Cp w/FldSdyAbn</td>
<td>PSY</td>
<td>GR</td>
<td>Lecture/Lab Combination</td>
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<td>Spring 21</td>
<td>HPR2010</td>
<td>2010</td>
<td>Teaching Invasion Games</td>
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<td>Lecture</td>
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<td>Spring 21</td>
<td>IT2240</td>
<td>2240</td>
<td>Fund of Weblog Design</td>
<td>IT</td>
<td>UG</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>Spring 21</td>
<td>SOC3710</td>
<td>3710</td>
<td>Comparative Crim Jus</td>
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<td>UG</td>
<td>Lecture</td>
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<td>Semester</td>
<td>Code</td>
<td>Credits</td>
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<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>EDL9450 9450</td>
<td>3</td>
<td>Adv Curriculum Theory</td>
<td>Educational Leadership</td>
<td>Studying curriculum theories from original sources and relating those theories to philosophical presuppositions and social-cultural foundations. The course also focuses on the critical evaluation of curriculum theories and models.</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>FAS4000 4000</td>
<td>3</td>
<td>Cereal Technology</td>
<td>Food and Agricultural Systems</td>
<td>Cereal grains, their quality attributes, common processing technologies and end product utilization.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6440 6440</td>
<td>3</td>
<td>Studies Ethnic/Reg Lit</td>
<td>English</td>
<td>Intensive study of literature from different regions of America or reflecting the experiences of different ethnic groups. Intended to develop an understanding of race, region, and ethnicity as important both to literature and to its critical appreciation.</td>
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<tr>
<td>Spring 2021</td>
<td>IHE6320 6320</td>
<td>3</td>
<td>Hum-Sys Int &amp; Usab Engr</td>
<td>Industrial &amp; Hum Fac Engr</td>
<td>User-centered design and usability testing for product development with an emphasis on human-computer interfaces. Department Managed Prerequisite(s): Graduate level IHE 6300 Minimum Grade of D-&lt;b&gt;.</td>
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<tr>
<td>Spring 2021</td>
<td>ML2040 2040</td>
<td>3</td>
<td>The Hispanic World</td>
<td>Modern Languages</td>
<td>Introduction to Hispanic cultures with particular focus on Spain’s relationship with its “Others” such as Muslims and Jews; the colonial legacies of Latin America, with particular attention to the portrayal of women, Indians and Afro-Latinos; and Latino cultural impact in the United States.</td>
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<tr>
<td>Spring 2021</td>
<td>OIS1040 1040</td>
<td>3</td>
<td>Professional Devel IV</td>
<td>Office Information Systems</td>
<td>Professional development in office procedures, dress, personality, leadership, and other aspects of business development.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4980 4980</td>
<td>1</td>
<td>English Honors Tutorial</td>
<td>English</td>
<td>Two-semester sequence for senior English majors who are doing an English honors project. Department Managed Prerequisite(s): Undergraduate level ENG 3060 Minimum Grade of C-&lt;b&gt;.</td>
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<tr>
<td>Spring 2021</td>
<td>PLS3220 3220</td>
<td>3</td>
<td>State Government</td>
<td>Political Science</td>
<td>Survey and analysis of the structures and functions of the American states with special attention to the problems of federal-state and state-local relations, legislative apportionment, and urban growth. Integrated Writing course.</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>PLS4380 4380</td>
<td>3</td>
<td>Environmental Law Policy</td>
<td>Political Science</td>
<td>Environmental law and policy and the statutory framework pertaining to environmental impact statements, the regulation of air and water pollution, the disposal and cleanup of toxic wastes, and workplace safety.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE2010L 2010L</td>
<td>1</td>
<td>Analog Circuit Theory Lab</td>
<td>Electrical Engineering</td>
<td>Transform-calculus approach to computer-assisted analysis, instantaneous and dynamic circuits, operational amplifiers and applications, Thévenin equivalents, frequency-domain and time-domain responses, simulation and realization of theoretical predictions. Department Managed Prerequisite(s): Undergraduate level ENG 1100 Minimum Grade of C and Undergraduate level MTH 2310 Minimum Grade of C and Undergraduate level PHY 2410 Minimum Grade of D (PHY 2410 can be taken concurrently) and Undergraduate level PHY 2410L Minimum Grade of D (PHY 2410L can be taken concurrently)&lt;b&gt;.</td>
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<tr>
<td>Spring 2021</td>
<td>MUS1320 1320</td>
<td>1</td>
<td>Beg Guitar Class II</td>
<td>Music</td>
<td>Based on technique covered in MUS 1310, this class concentrates on note-reading, more chords, and accompaniment styles.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ACC7440 7440</td>
<td>3</td>
<td>Attestation Top/Research</td>
<td>Accountancy</td>
<td>This course provides in depth coverage of professional standards and audit procedures applied to specific business processes, including statistical sampling techniques tests of controls, substantive tests of transactions and balances and analytical procedures.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>NUR4820 4820</td>
<td>6</td>
<td>PopNursing Pol Sys</td>
<td>Nursing</td>
<td>Integrates population-based concepts to assess populations. Emphasizes all levels of prevention to promote health of individuals, families, and groups; including lifestyle and genetic factors impacting population health. Examines global aspects of the demographic, social, political, legal-ethical, and environmental issues influencing health care and health policy. Fieldwork provides opportunities for the professional nurse to provide and coordinate care among vulnerable populations.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8760 8760</td>
<td>3</td>
<td>Supervising Instr &amp; Prsnl</td>
<td>Educational Leadership</td>
<td>The course content focuses on supervising and assessing curriculum, instruction, and personnel.</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>DAN4210 4210</td>
<td>2</td>
<td>Jazz/Theatre Dance IV</td>
<td>Dance</td>
<td>Diversified styles and techniques of advanced jazz/musical theatre dancing. Emphasis on the continued development of advanced rhythms, syncopation, coordination, musicality, and variation of style.</td>
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<tr>
<td>Spring 2021</td>
<td>DAG6010 6010</td>
<td>0.5</td>
<td>DAGSI Registration</td>
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<td>Course Name</td>
<td>Department</td>
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<tr>
<td>Spring 2021</td>
<td>CHM1220R</td>
<td>General Chemistry Lab II Rec.</td>
<td>CHM</td>
<td>0</td>
<td>Required recitation for CHM 1220.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>EGR7030</td>
<td>Computation Egr Analysis</td>
<td>EGR</td>
<td>3</td>
<td>Students will learn practical and efficient computational techniques that are routinely encountered in modeling, simulation and analysis of engineering problems.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7960</td>
<td>Project - Cyber Security</td>
<td>CS</td>
<td>1</td>
<td>Capstone Project Research in Cyber Security</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4000</td>
<td>Linear Systems II</td>
<td>EE</td>
<td>3</td>
<td>Discrete time signals and systems theory, the z-transform theory, input/output relationships, discrete Fourier transform, IIR and FIR filter design, and sampling.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES3990</td>
<td>Problems Earth &amp; Env Sci</td>
<td>EES</td>
<td>0.5</td>
<td>Research and problems designed for undergraduate students at the junior level. May be taken for a letter grade or pass/unsatisfactory.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT7900</td>
<td>Internship in Marketing</td>
<td>MKT</td>
<td>3</td>
<td>On the job training and experience with an organization. Integrates classroom study with practical work experience.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH6290</td>
<td>Cryptography Data Secur</td>
<td>MTH</td>
<td>3</td>
<td>Mathematical principles of cryptography and data security. Preliminary algebra and number theory will be briefly introduced. Various developments in cryptography will then be discussed, including the data encryption standard (DES), public-key encryption (RSA), cryptographic hash functions, digital signatures, key safeguarding schemes, and cryptographic protocols such as key exchange and entity authentication, identification schemes, electronic elections and digital cash. Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES4540</td>
<td>Subsurface Fluid Flow</td>
<td>EES</td>
<td>3</td>
<td>Physical processes underlying the movement of fluids through the porous subsurface. Transport of particulates and solutes, including contaminants within ground water flow regimes, and the flow of oil, gas and brine in georeservoirs. Emphasis on quantitative problem solving. 3 hours lecture/ 2 hours lab.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY4100</td>
<td>Applied Psych Cap</td>
<td>PSY</td>
<td>3</td>
<td>Writing and oral communication intensive seminar integrating knowledge on applied psychology. Topics vary. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7004</td>
<td>Theoretical Foundations</td>
<td>NUR</td>
<td>3</td>
<td>Analysis of nursing and other selected concepts, models, and theories as related to nursing practice, administration, and education in development and application of nursing science.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4560</td>
<td>Politics of Europe</td>
<td>PLS</td>
<td>3</td>
<td>Comparative study of the political systems of Great Britain, France, and Germany. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ES7990</td>
<td>Indep Topics &amp; Research</td>
<td>ES</td>
<td>1</td>
<td>Research and problems designed for specific needs and talents of the students.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>ED7030</td>
<td>LA and SS Grades 4/5</td>
<td>ED</td>
<td>3</td>
<td>Pedagogy and content knowledge of content area reading through the study of grades 4 and 5 social studies.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>FR4640</td>
<td>FR Canadian Lit &amp; Film</td>
<td>FR</td>
<td>3</td>
<td>French Canadian literature and film in its socio-historical context, with focus on works of Acadian and Quebecois poets, novelists and playwrights (such as Maillet, Tremblay, Thériault) and filmmakers (such as Forest, Chasson, Bélanger, Mitrami, Saia, and Filiatrault). Taught in French. Department Managed Prerequisite(s): (Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D).</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT3700</td>
<td>Create,Solve,Communicate</td>
<td>MKT</td>
<td>3</td>
<td>Methods for enhancing creativity, team building and communication to better solve problems, all of which are essential tools for effective marketing.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LDR7500</td>
<td>Internship in Ldrship Dev.</td>
<td>LDR</td>
<td>3</td>
<td>An organization-based experience that provides students with an opportunity to gain an understanding of and practice with leadership-in-action.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7840</td>
<td>Soft Computing</td>
<td>CS</td>
<td>3</td>
<td>This course explores soft computing from a historical, theoretical, and an application viewpoint. Techniques including evolutionary computation, neural computation, fuzzy set theory and approximate reasoning applied to problems in control, optimization, and classification are presented. Department Managed Prerequisite(s): Undergraduate level CS 3100 Minimum Grade of D or Graduate level CS 3100 Minimum Grade of D.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS4260</td>
<td>Matrix Computations</td>
<td>CS</td>
<td>3</td>
<td>Numerical linear algebra survey using high-level computing tools. Topics include linear equations, matrix factorizations, eigenvalue problems, least squares, applications of singular value decompositions, and iterative methods for large sparse matrices. Conditioning of problems and accuracy and stability of algorithms are emphasized.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>LEP0340</td>
<td>Integrated Skills Level 3</td>
<td>LEP</td>
<td>0</td>
<td>Reading, vocabulary, listening and note-taking, cross-cultural discussions for high-intermediate ESL students. This course has a fee that is non-refundable once the term begins.</td>
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<td>Course Code</td>
<td>Title</td>
<td>Units</td>
<td>Description</td>
<td>Offered</td>
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<td>Requirement</td>
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<tr>
<td>EDT7900</td>
<td>SLM Practicum</td>
<td>7900</td>
<td>Supervised teaching experience in a school library for library media candidates pursuing an initial license.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>Internship</td>
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<tr>
<td>EGR1980</td>
<td>Intro to Psychology</td>
<td>1010</td>
<td>History of psychology, research methods, brain and behavior, sensation, perception, consciousness, learning, memory, cognition, language, intelligence, development, motivation, emotion, social behavior, personality, health, psychopathology, therapy, and applied psychology - e.g. industrial organizational psychology. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
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<tr>
<td>CS6970</td>
<td>Independent Study in CS</td>
<td>6970</td>
<td>Independent study in computer science.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>IS</td>
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<tr>
<td>KNH3600</td>
<td>Catastrophe Response</td>
<td>3600</td>
<td>Addresses emergency management education, including disaster preparedness and response strategies, for catastrophic events.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>BMB4630</td>
<td>Principles of NMR</td>
<td>4630</td>
<td>Students will learn the basic theory of nuclear magnetic resonance (NMR) techniques, including its applications in chemical analysis (spectroscopy) and diagnostic imaging (MRI). Classroom activities will include lectures, problem solving, and student presentations.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>HEA9210</td>
<td>Curriculum in Higher Ed</td>
<td>9210</td>
<td>Introduction to patterns of curricular organization in the four-year college and university with attention to historical development and current models. Study of the issues governing curriculum planning, including the social, economic, political, historical, and philosophical contexts of which curriculum is formed and developed.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>RE</td>
</tr>
<tr>
<td>GER6810</td>
<td>Ind Read for Grad Stud</td>
<td>6810</td>
<td>Independent reading for graduate students. Taught in German.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>PL56360</td>
<td>Criminal Law</td>
<td>6360</td>
<td>Examines the nature of the criminal law and reviews the law pertaining to criminal liability, inchoate crimes; the elements of crimes against persons, property, and habitation; and the defenses to criminal actions.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>NUR7202</td>
<td>Acute Adult Hlth Prob II</td>
<td>7202</td>
<td>Focus is on complex symptom management related to acute and emergent physiological alterations in endocrine, gastrointestinal, genitourinary, hematomatological, immunological and neurological function. Health promotion, maintenance and restoration are emphasized, along with risk assessment and preventative strategies. Advanced practice role development is incorporated into the course through patient care management seminars, case study presentations and clinical practice.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>DOS9035</td>
<td>Emerg Issues in Org Stdy</td>
<td>9035</td>
<td>This course focuses on theory, research, and current trends related to organizational theory from the individual, team, and organizational perspectives.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>SE</td>
</tr>
<tr>
<td>MUS6560</td>
<td>Vocal Literature II</td>
<td>6560</td>
<td>Survey of vocal literature from the 18th through the 20th century emphasizing opera, and oratorio.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>CEG1900</td>
<td>Internship</td>
<td>1900</td>
<td>Students earn general elective credit for a future internship experience by working in a major related job that provides meaningful work experience to enhance technical skills and promote professional development.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>IN</td>
</tr>
<tr>
<td>MTH5260</td>
<td>Num Mthds Comput Sci</td>
<td>5260</td>
<td>Numerical methods for the sciences using modern programming languages. Solution of linear and nonlinear equations, symmetric matrix eigenvalue problems, interpolation and least squares. Initial value and boundary value problems for representative systems governed by ordinary and partial differential equations are also solved numerically. Department Managed Prerequisite(s): Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D and (Undergraduate level MTH 2350 Minimum Grade of D or Undergraduate level MTH 2330 Minimum Grade of D and Undergraduate level MTH 2530 Minimum Grade of D). Grade of D or Undergraduate level MTH 2530 Minimum Grade of D).</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>SW6880</td>
<td>Gero Cert Project</td>
<td>6880</td>
<td>Applied research in an agency setting that serves older adults under the guidance of the gerontology certificate director.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>IS</td>
</tr>
<tr>
<td>BME7112</td>
<td>Proc of Medical Images</td>
<td>7112</td>
<td>Digital image processing and its application to medical images. Topics include image display, compression, filtering, spatial versus frequency domain techniques, edge detection, morphological operations, registration and classification. Department Managed Prerequisite(s): Graduate level BME 7110 Minimum Grade of D.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>RST2920</td>
<td>Regional Studies: India</td>
<td>2920</td>
<td>India's role in regional and global affairs and the impact of history, culture and politics in the development of India and South Asia. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>GR</td>
<td>LE</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Instructor</td>
<td>Location</td>
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<tr>
<td>BIO4070</td>
<td>4070</td>
<td>Wetlands Biology</td>
<td>BIO</td>
<td>Biology</td>
<td>5</td>
<td>Ecological investigation of wetlands of United States, with emphasis on Midwest. Covers soils, vegetation, hydrology, conservation, and restoration. Primarily field oriented and some lecture.</td>
</tr>
<tr>
<td>ME4610</td>
<td>4610</td>
<td>Thermal-Fluids Lab</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>2</td>
<td>Experiments in thermodynamics, fluid dynamics and heat transfer will be performed. Lab reports. &quot;&lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3360 Minimum Grade of D and Undergraduate level ME 3600 Minimum Grade of D&quot;.&lt;b&gt;</td>
</tr>
<tr>
<td>CHM44650</td>
<td>4650</td>
<td>Physical Polymer Chem</td>
<td>CHM</td>
<td>Chemistry</td>
<td>2</td>
<td>Structural and physical aspects of macromolecules. Emphasizes the relationship of polymer structure to physical and mechanical properties.</td>
</tr>
<tr>
<td>ATR7550</td>
<td>7550</td>
<td>Clinical Practice III</td>
<td>ATR</td>
<td>Athletic Training</td>
<td>2</td>
<td>Clinical experience with a preceptor to practice, apply and master a variety of entry-level skills learned in the previous semester. Evaluation will occur in both the clinical and classroom settings.</td>
</tr>
<tr>
<td>DANN1250</td>
<td>1250</td>
<td>Jazz Dance for Actor II</td>
<td>DANN</td>
<td>Dance</td>
<td>1</td>
<td>Continued exploration of fundamental jazz dance technique to develop potential in creative movement, increase musical awareness, and improve professional audition skills for theatre-related activities. Designed for non-dance majors.</td>
</tr>
<tr>
<td>WGS4000</td>
<td>4000</td>
<td>Topics in Gender &amp; Sexuality</td>
<td>WGS</td>
<td>Women, Gender, and Sexuality</td>
<td>3</td>
<td>Issues, approaches, and topics in the field of gender and sexuality studies. Titles and topics vary. Integrated Writing course.</td>
</tr>
<tr>
<td>KNH11180A</td>
<td>1180A</td>
<td>Dance: Swing</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
<td>Fundamental skills and knowledge of Dance: Swing. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>CS7700</td>
<td>7700</td>
<td>Adv. Database Systems</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Introduction of design concepts, operating principles, current trends, and research issues in database systems.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level CS 4700 Minimum Grade of D or Graduate level CS 6700 Minimum Grade of D.&quot;&lt;b&gt;</td>
</tr>
<tr>
<td>URS4210</td>
<td>4210</td>
<td>Public Leadership Change</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Examines leadership role of the public and nonprofit administrators in formulating programs, policies, and service delivery options. Explores topics such as managing internal and external environments, improving productivity and effectiveness, policy/program creation, and the dynamics of change.</td>
</tr>
<tr>
<td>SCM4800</td>
<td>4800</td>
<td>Special Topics in SCM</td>
<td>SCM</td>
<td>Supply Chain Management</td>
<td>3</td>
<td>Focuses on one area of emerging trend of supply chain management.</td>
</tr>
<tr>
<td>PSY3930L</td>
<td>3930L</td>
<td>Beh Neuroscience Methods Lab</td>
<td>PSY</td>
<td>Psychology</td>
<td>0</td>
<td>Required laboratory for PSY 3930.</td>
</tr>
<tr>
<td>GER6030</td>
<td>6030</td>
<td>Adv. Studies: Lang &amp; Civ</td>
<td>GER</td>
<td>German</td>
<td>3</td>
<td>Advanced level course on German or German-American literature, culture or film. Topics and Title vary. Taught in German.&lt;b&gt; Department Managed Prerequisite(s): Graduate level GER 5110 Minimum Grade of D or Graduate level GER 5120 Minimum Grade of D or Graduate level GER 5220 Minimum Grade of D.&quot;&lt;b&gt;</td>
</tr>
<tr>
<td>URS4460</td>
<td>4460</td>
<td>Transportation Principle</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Principles related to developing and managing public and human service transportation systems. Role of public and human service transportation in society, history and geography of public transportation, and spatial, funding, organizational, cost benefit, labor, and customer service issues.</td>
</tr>
<tr>
<td>PHY5150</td>
<td>5150</td>
<td>Physics Instrument Lab</td>
<td>PHY</td>
<td>Physics</td>
<td>3</td>
<td>Familiarity with the fundamentals of analog electronics as applied to scientific instrumentation. Ability to converse with electronic technicians professionally. Ability to build prototype circuits and test their operation. Familiarity with a few sensors and with methods of signal to noise enhancement.</td>
</tr>
<tr>
<td>BMS7111</td>
<td>7111</td>
<td>Adv Biomedical Signals</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>3</td>
<td>Characteristics and measurement of various biomedical signals; time-domain and frequency-domain, continuous and discrete signal representations; applications of digital and random signal processing methods to various biomedical signals.</td>
</tr>
<tr>
<td>EES3700</td>
<td>3700</td>
<td>HAZWOPER Refresher</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>1</td>
<td>Refresher training covering management of hazardous materials and emergency response in the workplace, at spills, or at hazardous waste sites. Satisfies the requirements for 8 hours of refresher training specified under OSHA 29 CFR 1910.120.</td>
</tr>
<tr>
<td>EE4190L</td>
<td>4190L</td>
<td>Intelligent Control Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
<td>Intelligent control strategies for systems and subsystems in industrial and engineering applications.&lt;b&gt; Department Managed Prerequisite(s): Undergraduate level EE 4130 Minimum Grade of D and Undergraduate level EE 4130L Minimum Grade of D&quot;.&lt;b&gt;</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6590</td>
<td>6590</td>
<td>Adv Aquatic Geochem</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH5200</td>
<td>5200</td>
<td>Sp Topics in Cult Anth</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7970</td>
<td>7970</td>
<td>Learn</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1555</td>
<td>1555</td>
<td>GRACIE Self Def:Intermed</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC3700</td>
<td>3700</td>
<td>Environ &amp; Ecol Economics</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SLI1200</td>
<td>1200</td>
<td>Interpreting Profession</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY1120</td>
<td>1120</td>
<td>Principles of Physics II</td>
<td>PHY</td>
<td>Physics</td>
<td>4</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1000B</td>
<td>1000B</td>
<td>Special Topics</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4420</td>
<td>4420</td>
<td>Criminal Justice System</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS3200</td>
<td>3200</td>
<td>Comm/Reg Planning I</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUE6440</td>
<td>6440</td>
<td>University Brass Choir</td>
<td>MUE</td>
<td>Music: Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7120</td>
<td>7120</td>
<td>Finite Elem Method Appl</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1060A</td>
<td>1060A</td>
<td>Backpacking</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4711</td>
<td>4711</td>
<td>Basic Diag Micro Lab</td>
<td>MLB</td>
<td>Medical Laboratory Science</td>
<td>1.5</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS4840</td>
<td>4840</td>
<td>Intro Machine Learning</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL8320</td>
<td>8320</td>
<td>Action Resrch Practicum</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT7810</td>
<td>7810</td>
<td>Independent Study</td>
<td>MGT</td>
<td>Management</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT3600</td>
<td>3600</td>
<td>Retailing &amp; E-Commerce</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Instructor</td>
<td>Location</td>
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<tr>
<td>ME5210</td>
<td>5210</td>
<td>System Dynamics</td>
<td>Mechanical and Materials Engr</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>PLS4460</td>
<td>4460</td>
<td>Public Budgeting</td>
<td>Political Science</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>MTH4400</td>
<td>4400</td>
<td>History of Mathematics</td>
<td>Art</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>ART4030</td>
<td>4030</td>
<td>Studies in Drawing</td>
<td>Art</td>
<td></td>
<td>LB Lab</td>
<td></td>
</tr>
<tr>
<td>GEO4990</td>
<td>4990</td>
<td>Applied Research Project</td>
<td>Geography</td>
<td></td>
<td>SE Seminar</td>
<td></td>
</tr>
<tr>
<td>ED6330</td>
<td>6330</td>
<td>MCE Soc. Studies: C &amp; M</td>
<td>Education</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>ISE4420</td>
<td>4420</td>
<td>I&amp;E Seminar Series</td>
<td>Industrial &amp; Systems Engr</td>
<td></td>
<td>SE Seminar</td>
<td></td>
</tr>
<tr>
<td>CEG3310L</td>
<td>3310L</td>
<td>Computer Organization Lab</td>
<td>Computer Engineering</td>
<td></td>
<td>LB Lab</td>
<td></td>
</tr>
<tr>
<td>ENG4730</td>
<td>4730</td>
<td>TESOL Theory and Culture</td>
<td>English</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>EDS4610</td>
<td>4610</td>
<td>Intrvnt Spec Method Mild/Mod</td>
<td>Education - Special Education</td>
<td></td>
<td>LE Lecture</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>ANT7550</td>
<td>7550</td>
<td>Practicum Literature Review</td>
<td>Students will independently create the document, with input from a faculty mentor who will guide the development of the outline and provide feedback on drafts of the individual sections. The final complete document will be reviewed and feedback will be provided by a committee of three faculty, including the mentor. The student will have the opportunity for 1 rewrite, after which the committee will grade the final document. Department Managed Prerequisite(s): Graduate level ED 6160 Minimum Grade of C (ED 6160 can be taken concurrently) and Graduate level ED 6660 Minimum Grade of C and Graduate level ED 6840 Minimum Grade of C.</td>
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<tr>
<td>COM4640</td>
<td>4640</td>
<td>Media Criticism</td>
<td>Analysis of contemporary programming and production practices including the development of critical standards for evaluation.</td>
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</tr>
<tr>
<td>ART3580</td>
<td>3580</td>
<td>Intermed Photo Practices</td>
<td>Exploration of expanded black and white photographic materials and photography techniques. Investigation of aesthetic possibilities of the media. Development of personal concepts and aesthetic expression in photography. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 2070 Minimum Grade of D.</td>
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<tr>
<td>TTW6460</td>
<td>6460</td>
<td>Voc Eval/Job Placement</td>
<td>Theoretical orientation, development and utilization of data for hypothesis testing and communicating vocational data. Includes career development theories and job placement strategies and techniques to facilitate employment of people with disabilities.</td>
<td></td>
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<tr>
<td>DAN1320</td>
<td>1320</td>
<td>Intermediate Jazz I</td>
<td>First-year intermediate jazz dance technique. Emphasis on technical proficiency and versatility and the development of intricate rhythms, syncopation, coordination, musicality, and variation of style. Focuses on increasing body strength, flexibility, and kinesthetic awareness.</td>
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<tr>
<td>PSY3130</td>
<td>3130</td>
<td>Methods in Clinical Psyc</td>
<td>This course provides students with a critical knowledge of qualitative research methods in psychology and with competencies necessary to carry out this kind of research in conjunction with quantitative methods and independently in its own right. The course includes a focus on the history of use, the philosophical foundations, and the scientific status of qualitative research methods in psychology. Integrated Writing course.</td>
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<tr>
<td>KNH1510</td>
<td>1510</td>
<td>Scuba: Advanced Diver</td>
<td>Intermediate level of skills and knowledge in Scuba: Advanced Diver. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td></td>
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<tr>
<td>TH4360</td>
<td>4360</td>
<td>Graphics II: Rendering</td>
<td>Further development of skills used in creating theatrical renderings, costume plates and lighting sketches. Figure drawing, depiction of light and shadow, and traditional and non-traditional media and techniques.</td>
<td></td>
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</tr>
<tr>
<td>SLI4550</td>
<td>4550</td>
<td>Interpreting for Theater</td>
<td>Provides students with basic skills in musical performance and theatrical interpreting. Script analysis and translation, theater basics, character development, and interpreter issues will be addressed as well as musical styles and interpretation.</td>
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<tr>
<td>HEA9200</td>
<td>9200</td>
<td>Hist &amp; Phil High Ed U.S.</td>
<td>Reviews history and development of higher and continuing education in the United States with special attention to forces that have shaped its development. Examines history of critical philosophical debates, and issues about the nature and role of higher education.</td>
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<tr>
<td>ME2120R</td>
<td>2120R</td>
<td>Statics Recitation</td>
<td>Required recitation for ME 2120. Department Managed Prerequisite(s): Undergraduate level EGR 1010 Minimum Grade of D or Undergraduate level MTH 2310 Minimum Grade of D and Undergraduate level ME 1040 Minimum Grade of D and Undergraduate level PHY 2400 Minimum Grade of D.</td>
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<tr>
<td>PSY4320</td>
<td>4320</td>
<td>Develop Psychopath Cap</td>
<td>Concepts and principles of developmental psychopathology and their connections to childhood/adolescent disorder and the evolution of personality pathology. Integrated Writing course.</td>
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</tr>
<tr>
<td>HED2340</td>
<td>2340</td>
<td>Health Behaviors</td>
<td>Addresses the theories of health behavior and health behavior change. Students develop a theory-based logic map for one risk behavior or protective health behavior.</td>
<td></td>
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</tr>
<tr>
<td>PSY3730</td>
<td>3730</td>
<td>Perception Methods</td>
<td>Laboratory experience and research techniques in various areas of perception. Integrated Writing course.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Type</td>
<td>Description</td>
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<tr>
<td>ES7180</td>
<td>7180</td>
<td>Chem Processes in Environ</td>
<td>ES</td>
<td>Environmental Sciences</td>
<td>Skills are developed to predict behavior and movement of chemical contaminants in atmospheric, aquatic and soil systems. Physical and chemical properties of contaminants and environmental interactions are evaluated to determine their ultimate fate.</td>
<td></td>
</tr>
<tr>
<td>ENG7910</td>
<td>7910</td>
<td>Independent Study</td>
<td>ENG</td>
<td>English</td>
<td>Faculty-directed independent study in literature or language usually requiring reports and conferences with the instructor. A maximum of three credits may be applied to the M.A. degree.</td>
<td></td>
</tr>
<tr>
<td>ECO5540</td>
<td>5540</td>
<td>Eco and World Hist</td>
<td>ECO</td>
<td>Center for Economic Educ.</td>
<td>This course is designed to link world historical events and economic concepts. Questions like, Why do some economies grow and prosper while others remain stagnant or decline? and What causes people to make choices that help or hinder economic growth? are among the topics that will be explored. This course will assist teachers in grades 6-12 with integrating economic concepts into an existing world history curriculum. This course has a fee that is non-refundable once the term begins.</td>
<td></td>
</tr>
<tr>
<td>ME7760</td>
<td>7760</td>
<td>Transformation of Solids</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>This is the first course in a two course sequence. Covers the theory of homogeneous and heterogeneous nucleation and diffusion and interface controlled growth.</td>
<td></td>
</tr>
<tr>
<td>ISE4920</td>
<td>4920</td>
<td>ISE Design II</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>Segment two of the ISE senior design sequence. Practicum results in the final engineering design and completion of the design project. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>SAA7620</td>
<td>7620</td>
<td>Stu Aff Higher Ed Admin</td>
<td>SAA</td>
<td>Student Affairs in Higher Ed</td>
<td>Surveys student services in colleges and universities. Consideration is given to the organization, administration, and rationale of these services, within the context of the entire institution.</td>
<td></td>
</tr>
<tr>
<td>PSY3330</td>
<td>3330</td>
<td>Personality Research Mth</td>
<td>PSY</td>
<td>Psychology</td>
<td>Survey of research methods appropriate to personality assessment and analysis. Laboratory experience in the development, implementation, and analysis of a research project focused on an issue in personality psychology. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>CEG7980</td>
<td>7980</td>
<td>Part-time CPT in CEG</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>Practical work experience in graduate level Computer Engineering.</td>
<td></td>
</tr>
<tr>
<td>BMB3990</td>
<td>3990</td>
<td>UG Teaching Assistant</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>Supervised experience in preparing materials and apparatus for laboratory sessions and/or facilitation of teaching in biochemistry and molecular biology lectures. Students will work with faculty on a regularly scheduled basis to develop the practices and skills associated with laboratory/classroom teaching responsibility and assist in teaching the laboratory/course. Students must have already passed the course for which they wish to be a teaching assistant.</td>
<td></td>
</tr>
<tr>
<td>SOC4500</td>
<td>4500</td>
<td>Sociological Theory</td>
<td>SOC</td>
<td>Sociology</td>
<td>Readings in an area of specialized interest in sociological theory. Topics vary. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>PLS6330</td>
<td>6330</td>
<td>Public Opinion</td>
<td>PLS</td>
<td>Political Science</td>
<td>Opinion formation in American politics; relationship of opinion to public policy; voting behavior in American elections; role of mass media and political interest groups in the policy process; and development of political attitudes and values.</td>
<td></td>
</tr>
<tr>
<td>MUA1410</td>
<td>1410</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td></td>
</tr>
<tr>
<td>KNH1380B</td>
<td>1380B</td>
<td>Kayaking: Recreational</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>Fundamental skills and knowledge of Kayaking: Recreational. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td></td>
</tr>
<tr>
<td>PSY6330</td>
<td>6330</td>
<td>Personal Psych Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>Communication-intensive seminar integrating knowledge on personality, including theory, research, and application.</td>
<td></td>
</tr>
<tr>
<td>PSI8080</td>
<td>8080</td>
<td>Professional Development</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>Issues relevant to students' development as professional psychologists including professional involvement, legal and legislative issues, professional ethics and standards, and relations with other professional groups.</td>
<td></td>
</tr>
<tr>
<td>MTH2350</td>
<td>2350</td>
<td>Diff Eq with Matrices</td>
<td>MTH</td>
<td>Mathematics</td>
<td>Introduction to differential equations with matrix theory. Matrices, determinants, vector spaces, least squares solutions, eigenvalues/eigenvectors, matrix diagonalization; first order differential equations, second and higher order linear equations, forced oscillations, systems of linear differential equations, phase plane, and Laplace transforms</td>
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<tr>
<td>ED5040</td>
<td>5040</td>
<td>MCE Gen ELA Inst</td>
<td>ED</td>
<td>Education</td>
<td>Methods for teaching 4th, 5th, and 6th grades language arts pertinent to the Ohio Learning Standards ELA with emphasis on content, developmentally appropriate pedagogy, curricula, and materials.</td>
<td></td>
</tr>
<tr>
<td>MUS1990</td>
<td>1990</td>
<td>Intro to Music Educ</td>
<td>MUS</td>
<td>Music</td>
<td>Introduction to the social, historical and philosophical foundations of music education. Overview of the music teaching profession, including basic terminology, necessary skills and dispositions, curricular issues, and instructional procedures.</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Prerequisites</td>
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<tr>
<td>CHI2020</td>
<td>2020</td>
<td>Intermediate Chinese II</td>
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<tr>
<td>MIS3150</td>
<td>3150</td>
<td>Data and Info Mgmt</td>
<td></td>
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<tr>
<td>ART6080</td>
<td>6080</td>
<td>Studies in Photography</td>
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<tr>
<td>MUS3280</td>
<td>3280</td>
<td>Instrumental Music Ed Mth</td>
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<tr>
<td>DMV3010</td>
<td>3010</td>
<td>DMV Registration</td>
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<tr>
<td>HST4800</td>
<td>4800</td>
<td>Comparative History</td>
<td></td>
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<tr>
<td>KNH1600B</td>
<td>1600B</td>
<td>Step Aerobics</td>
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<tr>
<td>PSY8260</td>
<td>8260</td>
<td>Decision Making</td>
<td></td>
<td></td>
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<tr>
<td>REL3700</td>
<td>3700</td>
<td>Topics in Biblical Lit</td>
<td></td>
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<tr>
<td>CHM6370</td>
<td>6370</td>
<td>Electronanalytical Chem</td>
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<tr>
<td>GER2010</td>
<td>2010</td>
<td>Intermediate German I</td>
<td></td>
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<tr>
<td>ECE3300</td>
<td>3300</td>
<td>Intro Child Development</td>
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<tr>
<td>SOC5210</td>
<td>5210</td>
<td>Sociology of Deviance</td>
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<tr>
<td>PSY6530</td>
<td>6530</td>
<td>Psy and the Law Cap</td>
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<tr>
<td>LAT6350</td>
<td>6350</td>
<td>Roman Hist &amp; Biograpy</td>
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<tr>
<td>PTX8200</td>
<td>8200</td>
<td>Communications in Scienc</td>
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<tr>
<td>PSY8120</td>
<td>8120</td>
<td>Cortical Vis. Processes</td>
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<tr>
<td>ED6350</td>
<td>6350</td>
<td>MCE: Math Cur &amp; Mth</td>
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<tr>
<td>CLS4100</td>
<td>4100</td>
<td>Adv Studies in Antiquity</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Term</td>
<td>Type</td>
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<tr>
<td>NUR6114</td>
<td>6114</td>
<td>Nursing Elective</td>
<td>Determined by the specific faculty offering the elective. The purpose of the graduate nursing elective is to offer undergraduate and graduate students opportunities to explore specific topics in greater depth.</td>
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<td>GR</td>
</tr>
<tr>
<td>MUE2970</td>
<td>2970</td>
<td>Paul L. Dunbar Chorale</td>
<td>A choral ensemble for students who desire to explore the musical style of gospel music and its roots and various forms. Includes performances of a body of literature associated with the African American church to the university and surrounding communities.</td>
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<td>UG</td>
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<tr>
<td>URS6410</td>
<td>6410</td>
<td>Cities and Technology</td>
<td>Studies the evolving relationship between technology and urban growth, physical form, government, and politics. Explores how technological fixes for complex urban problems have shaped urban development and politics.</td>
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<td>GR</td>
</tr>
<tr>
<td>REL5120</td>
<td>5120</td>
<td>Modern Jewish Thought</td>
<td>Examination of the major themes and issues in the works of contemporary Jewish thinkers (e.g., Borowitz, Herberg, Fackenheim, Kaplan, Rothschild, Heschel, Rubenstein, and Weisel).</td>
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<td>GR</td>
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<tr>
<td>PLS4320</td>
<td>4320</td>
<td>Intl Politics Cyber Security</td>
<td>Examines the power and politics of cyber security, and the international implications of political and legal issues of digital technology on individuals, institutions, and states. Explores cyber security in the context of national and international security, with emphasis on cyber espionage, cyber influence, and cyber conflict operations. Integrated Writing course.</td>
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<td>UG</td>
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<tr>
<td>GER3250</td>
<td>3250</td>
<td>Business German I</td>
<td>An introduction to the language of business German with insight into Germany's place in the global economy. Taught in German. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level GER 2020 Minimum Grade of D or AP German Language 4.</td>
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<td>UG</td>
</tr>
<tr>
<td>REL5110</td>
<td>5110</td>
<td>Judaism: Faith &amp; People</td>
<td>Examination of Judaism as a religious faith and people, with special reference to formative historical, social, ethnic, and cultural factors.</td>
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<td>GR</td>
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<tr>
<td>PHY4700</td>
<td>4700</td>
<td>Topics in Physics</td>
<td>Selected topics in physics.</td>
<td></td>
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<td>UG</td>
</tr>
<tr>
<td>GER2150</td>
<td>2150</td>
<td>Scientific German</td>
<td>Intensive reading in all areas of expository and technical German. Department Managed Prerequisite(s): Undergraduate level GER 2010 Minimum Grade of D.</td>
<td></td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>IHE6850</td>
<td>6850</td>
<td>Six Sigma for Engr</td>
<td>Introduction to the practical application of Six Sigma tools in production and service contexts. Includes videos and case studies of real-world applications. Six Sigma Green Belt Certificate awarded to students upon successful completion of the course and in-class project. Department Managed Prerequisite(s): Graduate level IHE 6150 Minimum Grade of C or Undergraduate level ISE 2211 Minimum Grade of C or MS 2040 or STT 1600 or STT 2640 or STT 3420 or STT 3600.</td>
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<td>GR</td>
</tr>
<tr>
<td>PPH7150</td>
<td>7150</td>
<td>Applied Epidemiology</td>
<td>This course will overview advanced topics in epidemiology as they apply in public health research and applications. Department Managed Prerequisite(s): Graduate level PPH 6100 Minimum Grade of B and Graduate level PPH 6200 Minimum Grade of B.</td>
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<td>GR</td>
</tr>
<tr>
<td>TH3900</td>
<td>3900</td>
<td>Projects in Theatre</td>
<td>Advanced individual work.</td>
<td></td>
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<td>UG</td>
</tr>
<tr>
<td>IT2020</td>
<td>2020</td>
<td>Photoshop II</td>
<td>Advanced tools and techniques; topics include color harmonies, color value and saturation, color studies, various illusions created by contrast, value and saturation. Department Managed Prerequisite(s): Undergraduate level IT 2010 Minimum Grade of D.</td>
<td></td>
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<td>UG</td>
</tr>
<tr>
<td>PSY4120</td>
<td>4120</td>
<td>Applied Sports Psy Cap</td>
<td>Communication-intensive seminar integrating knowledge within sports psychology. Integrated Writing course.</td>
<td></td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>BMS8380</td>
<td>8380</td>
<td>Human Microanatomy and Systems II</td>
<td>Detailed microanatomy of human cells, tissues, and organ systems.</td>
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<td>GR</td>
</tr>
<tr>
<td>URS3450</td>
<td>3450</td>
<td>Public Administration</td>
<td>Nature and scope of public administration, administrative law, and public interest in the administrative process.</td>
<td></td>
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<td>UG</td>
</tr>
<tr>
<td>BMS7422</td>
<td>7422</td>
<td>Rehab Eng Systems II</td>
<td>Design and application of assistive devices used in rehabilitation of people with disabilities in various systems. Provides an understanding of the problems faced by people with disabilities, and the variety of possible solutions to these problems.</td>
<td></td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>EDL3600</td>
<td>9600</td>
<td>Pol &amp; Soc Contexts</td>
<td>The course is designed for current and aspiring district-level administrators exploring the political and social forces shaping educational policy, instructional leadership, and classroom practice.</td>
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<td>GR</td>
</tr>
<tr>
<td>MGT4300</td>
<td>4300</td>
<td>Conflict &amp; Negotation</td>
<td>This course will cover some very basic work in the factors that cause conflict especially when dealing with managers, co-workers, employees, customers and all stakeholders in the business world, and most importantly provide techniques for resolving conflict.</td>
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<tr>
<td>Code</td>
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<td>Department</td>
<td>Type</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>BIO4460</td>
<td></td>
<td>Advanced Cell Biology</td>
<td>BIO</td>
<td>Lab</td>
<td>3</td>
<td>Cell structure/function including the organization of the cell nucleus, DNA replication, multiple steps of gene expression, membrane composition and the importance of the cytoskeleton for cell motility, cell division and cell adhesion. Integrated Writing course.</td>
</tr>
<tr>
<td>CEG4120</td>
<td></td>
<td>Managing Software Development Processes</td>
<td>CEG</td>
<td>Lab</td>
<td>3</td>
<td>Software development processes, models, and techniques necessary to successfully develop large-scale software. Presents the Capability Maturity Model (CMM). Each student will participate in the development of a software project. Integrated Writing course.</td>
</tr>
<tr>
<td>LDR7030</td>
<td></td>
<td>Bldg Leadership Capacity</td>
<td>LDR</td>
<td>Lab</td>
<td>3</td>
<td>Students will explore leadership capacity from assessment through development and its alignment with leadership competencies. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>KNH1210</td>
<td>1210</td>
<td>Fencing: Intermediate</td>
<td>KNH</td>
<td>Lab</td>
<td>1</td>
<td>Intermediate level of skills and knowledge in Fencing: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>MTH5520</td>
<td>5320</td>
<td>Complex Variables</td>
<td>MTH</td>
<td>Lab</td>
<td>3</td>
<td>Operations with complex numbers; derivatives; holomorphic functions and the Cauchy-Riemann equations; integrals; Cauchy’s Theorem, the Cauchy Integral Formula, and consequences; definitions and properties of elementary functions; power series; conformal maps; the calculus of residues. Department Managed Prerequisite(s): Undergraduate level MTH 2320 Minimum Grade of D-&lt;hr&gt;</td>
</tr>
<tr>
<td>PSY5110</td>
<td>5110</td>
<td>Abnormal Psychology</td>
<td>PSY</td>
<td>Lab</td>
<td>3</td>
<td>Facts and theories pertaining to abnormal behavior. Topics include classification and diagnosis, and causes and treatment of abnormal behavior.</td>
</tr>
<tr>
<td>REL5550</td>
<td>5550</td>
<td>Human Rights in China</td>
<td>REL</td>
<td>Lab</td>
<td>3</td>
<td>Survey of the debate on human rights in China in relation to events in modern Chinese history such as: the fall of imperial rule, the Nationalist and Communist revolutions, the Cultural Revolution, and the Tiananmen Square massacre. Focus to include measuring the impact of Confucianism on current Chinese thinking regarding the themes of modernization, democratization, and human rights. Examination extends beyond China to other regions including Singapore, Taiwan, and Tibet.</td>
</tr>
<tr>
<td>MP3990</td>
<td>3990</td>
<td>Studies Select Subjects</td>
<td>MP</td>
<td>Lab</td>
<td>1</td>
<td>Practical experience or research in topics in the field of motion pictures. Topics vary.</td>
</tr>
<tr>
<td>MP3990</td>
<td>3990</td>
<td>Motion Picture</td>
<td>MP</td>
<td>Lab</td>
<td>1</td>
<td>Practical experience or research in topics in the field of motion pictures. Topics vary.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Instructor(s)</td>
<td>Prerequisite(s)</td>
<td>Location</td>
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<tr>
<td>IDL7130</td>
<td>3</td>
<td>Making Online Courses Interact</td>
<td>IDL</td>
<td>Examines the theory and practices of using educational technologies to ensure online courses include ample interaction. Class will include the knowledge and skills necessary to utilize some of these educational technologies.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>BIO3120</td>
<td>4</td>
<td>General Microbiology</td>
<td>BIO</td>
<td>Morphology, cultivation, and biochemical activities of microorganisms. Viruses, bacteria, blue-green algae, fungi and their diversity in natural environments.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>ART4280</td>
<td>4</td>
<td>Advanced Drawing</td>
<td>ART</td>
<td>Explores the structure and interrelationships of visual form in drawing, painting, and sculpture. Principal historical modes of drawing examined. This course has a fee that is non-refundable once the term begins.</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>MUS1510</td>
<td>4</td>
<td>Musicianship I</td>
<td>MUS</td>
<td>The study of sight singing and techniques for hearing and notating melody and harmony.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>SPN3440</td>
<td>3</td>
<td>Core Public Health</td>
<td>SPN</td>
<td>Public health infrastructure, including resources, agencies, and determinants of health that influence the health status of individuals and communities.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>EES4620</td>
<td>4</td>
<td>Environmental Toxicology</td>
<td>EES</td>
<td>Effects of environmental contaminants on aquatic and terrestrial organisms. Effects on the biochemical and physiological levels are related to impacts on individuals, populations, and ecosystems. Current approaches for assessing environmental toxicity.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PN7010</td>
<td>3</td>
<td>Sel Topics in Physiology</td>
<td>PN</td>
<td>A selected area of physiology is discussed in greater detail than in basic physiology courses. Some topics may include laboratory.</td>
<td>Lecture</td>
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<tr>
<td>CEG7020</td>
<td>4</td>
<td>Low Pwr VLSH Sys Des</td>
<td>CEG</td>
<td>CMOS VLSI subsystems and low-power subsystems design. Includes data path operators for FIR and IIR filter design: counters, high-speed adders, multipliers, and memory elements.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>LA3000</td>
<td>3</td>
<td>Internship Liberal Arts</td>
<td>LA</td>
<td>Career Services facilitated. Work experience in a liberal arts discipline. Faculty supervise and evaluate learning that requires planned and approved learning objectives, oral and/or written reports, employer evaluation, and conference with the faculty supervisor. May be repeated 3 times.</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>COM6810</td>
<td>3</td>
<td>Independent Study</td>
<td>COM</td>
<td>Faculty-directed readings and research.</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>SOC5730</td>
<td>3</td>
<td>Courts, Law, &amp; Justice</td>
<td>SOC</td>
<td>Critical examination of the process, structure, and effects of the U.S. court system. Special attention will be given to issues of race, class, and other social factors that affect justice in society.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PSY4060</td>
<td>3</td>
<td>Independent Research</td>
<td>PSY</td>
<td>Original problems for investigation. Graded pass/unsatisfactory.</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>LAT3510</td>
<td>3</td>
<td>Readings in Roman Drama</td>
<td>LAT</td>
<td>Drama in Latin by Seneca, Plautus, and/or Terence. Discussion of dramatic techniques, Greek influence, and the role of drama in Roman society.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>ENG2560</td>
<td>3</td>
<td>Basic Media Writing</td>
<td>ENG</td>
<td>Introduction to writing for media. Includes structure and organization of media copy. Requires reporting in the field. Integrated Writing course. Department Managed Prerequisite(s): Undergraduate level COM 1520 Minimum Grade of D/&lt;b&gt;/</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MUE2990</td>
<td>3</td>
<td>Collegiate Chorale</td>
<td>MUE</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced choral concert repertoire representing a wide range of historical and compositional styles. Audition required.</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>SPN3440</td>
<td>3</td>
<td>Spanish-American Culture</td>
<td>SPN</td>
<td>Study of Spanish-American culture with emphasis on its uniqueness among the family of nations. Taught in Spanish. Spanish majors who take SPN 3440 may not take ML 3040 for credit. Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D/&lt;b&gt;/</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>PSY6270</td>
<td>3</td>
<td>Cog Neuro Capstone</td>
<td>PSY</td>
<td>This graduate course will introduce students to current topics and controversies in cognitive neuroscience. The course will demonstrate how different research traditions are integrated to inform and advance present-day understanding of the relationship between brain and behavior.</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>MKT7870</td>
<td>3</td>
<td>Ind. Studies in Marketin</td>
<td>MKT</td>
<td>A research project in marketing supervised by a faculty member in the Department of Marketing.</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>GER4050</td>
<td>3</td>
<td>Early German Lit</td>
<td>GER</td>
<td>German literature from the earliest times to the Reformation. Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D or Undergraduate level GER 3120 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3260 Minimum Grade of D or Undergraduate level GER 3310 Minimum Grade of D or Undergraduate level GER 3320 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D or Undergraduate level GER 3610 Minimum Grade of D/&lt;b&gt;/</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
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<td>Level</td>
<td>Type</td>
<td>Activity</td>
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<tr>
<td>P&amp;N4420</td>
<td>4420</td>
<td>Intro Neurophysiology</td>
<td>P&amp;N</td>
<td>Physiology &amp; Neuroscience</td>
<td>Lecture</td>
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</tr>
<tr>
<td>SLI4800</td>
<td>4800</td>
<td>Advanced Interpreting II</td>
<td>SLI</td>
<td>Sign Language Interpreting</td>
<td>Lecture</td>
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<tr>
<td>ED7830</td>
<td>7830</td>
<td>Adv Educational Psych</td>
<td>ED</td>
<td>Education</td>
<td>Lecture</td>
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<tr>
<td>HST4650</td>
<td>4650</td>
<td>19th-Century US History</td>
<td>HST</td>
<td>History</td>
<td>Lecture</td>
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<tr>
<td>BME4960</td>
<td>4960</td>
<td>Dept Honors Research BME</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>Lecture</td>
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<tr>
<td>COM6490</td>
<td>6490</td>
<td>Survey of Com Research</td>
<td>COM</td>
<td>Communication</td>
<td>Lecture</td>
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<tr>
<td>EE4440L</td>
<td>4440L</td>
<td>Electronic Integr Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>Lab</td>
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<tr>
<td>PSY3430L</td>
<td>3430L</td>
<td>Developmental Psy Mth Lab</td>
<td>PSY</td>
<td>Psychology</td>
<td>Lab</td>
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<tr>
<td>BME7133</td>
<td>7133</td>
<td>Nucl Magnetic Res in Med</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>Lecture</td>
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<tr>
<td>MKT4870</td>
<td>4870</td>
<td>Ind Studies in Marketing</td>
<td>MKT</td>
<td>Marketing</td>
<td>Lecture</td>
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<tr>
<td>BMS8370</td>
<td>8370</td>
<td>Human Gross Anatomy</td>
<td>BMS</td>
<td>Biomedical Sciences</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>KNH1144</td>
<td>1144</td>
<td>Phys Ed for Disabled</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>Lecture</td>
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<tr>
<td>CEG4981</td>
<td>4981</td>
<td>Team Projects II</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>Lecture</td>
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<tr>
<td>ISE4330</td>
<td>4330</td>
<td>Erg in Occup Sfty &amp; Hlth</td>
<td>ISE</td>
<td>Industrial &amp; Systems Engr</td>
<td>Lecture</td>
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<tr>
<td>MUA1110</td>
<td>1110</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>Lecture</td>
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<tr>
<td>CHM1210</td>
<td>1210</td>
<td>General Chemistry I</td>
<td>CHM</td>
<td>Chemistry</td>
<td>Lecture</td>
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<tr>
<td>NUR7301</td>
<td>7301</td>
<td>Srt Ldshp&amp;Plng Nsg&amp;Hlth Care</td>
<td>NUR</td>
<td>Nursing</td>
<td>Lecture</td>
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<td>DAN3420</td>
<td>3420</td>
<td>Choreography II</td>
<td>DAN</td>
<td>Dance</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>EES2150</td>
<td>2.150</td>
<td>Global Change</td>
<td>Introduction to Earth systems, using modules that are based on environmental events such as volcanic eruptions, hurricanes, and climate change. An online laboratory component allows students to see how scientists use real time data sets to understand Earth systems.</td>
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<tr>
<td>BME6704L</td>
<td>6.704L</td>
<td>Adv Med Imaging Lab</td>
<td>Required laboratory for BME 6704.</td>
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<tr>
<td>STT3610</td>
<td>3.610</td>
<td>Applied Statistics II</td>
<td>Introduction to statistics, standard statistical methods for estimation of parameters and hypothesis testing, introduction to regression analysis and analysis of variance techniques, exposure to data analysis using packaged computer programs.</td>
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<tr>
<td>BIO1120L</td>
<td>1.120L</td>
<td>Cells &amp; Genes Laboratory</td>
<td>Required laboratory for BIO 1120.</td>
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<tr>
<td>MUS3420</td>
<td>3.420</td>
<td>Form and Analysis</td>
<td>Harmonic and formal analysis: motive, phrase, periods, and binary and ternary forms.</td>
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<tr>
<td>WGS4500</td>
<td>4.500</td>
<td>Topics Feminist Theory</td>
<td>Issues, approaches and topics in feminist theory. Titles and topics vary. Integrated Writing.</td>
<td></td>
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<tr>
<td>BME3511L</td>
<td>3.511L</td>
<td>Bioelectronics I Laboratory</td>
<td>Required laboratory for BME 3511.</td>
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<tr>
<td>KNH1540A</td>
<td>1.540A</td>
<td>Self Defense for Women</td>
<td>Fundamental skills and knowledge of Self Defense for Women. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
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</tr>
<tr>
<td>CSS5200</td>
<td>5.200</td>
<td>Theory of Computing</td>
<td>Introduction to the theory of formal languages and automata with an emphasis on the classes of languages commonly encountered by computer scientists. Computability examines the solution of decision problems; the Church-Turing thesis; the undecidability of the Halting Problem; and problem reduction and undecidability. Department Managed Prerequisite(s): Undergraduate level CS 3100 Minimum Grade of D or Graduate level CS 5100 Minimum Grade of D.</td>
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<tr>
<td>BMS7780</td>
<td>7.780</td>
<td>Cell Biology</td>
<td>Topics include but not limited to a review of current understanding of the structure and function of cells, organelles and subcellular complexes.</td>
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</tr>
<tr>
<td>ENG4110</td>
<td>4.110</td>
<td>Literature Practicum</td>
<td>Opportunities to use and refine the skills of Literary Study in specific applied contexts.</td>
<td></td>
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</tr>
<tr>
<td>RHB3720</td>
<td>3.720</td>
<td>International Counseling</td>
<td>Introduction to counseling and mental health services around the globe. Overview of the historical treatment, societal perceptions, services, and outcomes of people with severe mental illnesses internationally.</td>
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<tr>
<td>CHM3520R</td>
<td>3.520R</td>
<td>Physical Chemistry II Rec</td>
<td>Required recitation for CHM 3520. Integrated Writing course.</td>
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</tr>
<tr>
<td>CS4830</td>
<td>4.830</td>
<td>Systems Simulation</td>
<td>Introduction to simulation concepts and techniques. Modeling, discrete simulation, continuous simulation, random number generators, input distribution selection and analysis of simulation results. Emphasis on the application of simulation techniques for analyzing behavior of real systems.</td>
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<tr>
<td>EE6120L</td>
<td>6.120L</td>
<td>Industrial Controls Lab</td>
<td>Laboratory supporting EE 6120. Students will experience hands on learning in lab environment.</td>
<td></td>
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<tr>
<td>ECO5500</td>
<td>5.500</td>
<td>Teach Econ Use Child Lit</td>
<td>This course is designed to help teachers with little economic education learn how to teach economics using children's literature. Topics include scarcity, decision making, marginal cost/benefit, role of incentives, trade, money and entrepreneurship. This course has a fee that is non-refundable once the term begins.</td>
<td></td>
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</tr>
<tr>
<td>BMB4880</td>
<td>4.880</td>
<td>Ind Read Biochem Mol Bio</td>
<td>Review of current literature in biochemistry and molecular biology.</td>
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</tr>
<tr>
<td>ME6590</td>
<td>6.590</td>
<td>Adv. Clean Coal Tech.</td>
<td>Historical perspective on coal; sources of coal in the world; future dependence on coal for energy; power production using coal; general process description; principles of combustion, conventional combustion reactors, environmental impact; fluidized bed reactors, process improvements in minimizing emissions; and discussions on future innovations in for clean coal technology. Department Managed Prerequisite(s): Undergraduate level ME 3360 Minimum Grade of D or Graduate level ME 5360 Minimum Grade of D.</td>
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</tr>
</tbody>
</table>

*UG = Undergraduate, LL = Lecture/LLab, GR = Graduate, LB = Lab, RE = Recitation*
<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>CRN</th>
<th>Department</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisite(s)</th>
</tr>
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<tbody>
<tr>
<td>Spring 21</td>
<td>ED4450</td>
<td>4450</td>
<td>ED Education</td>
<td>ED Intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td>1</td>
<td>UG</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 21</td>
<td>GEO4500</td>
<td>4500</td>
<td>GEO Geography</td>
<td>GEO Intensive studies of the period, major movements, and artists of the time. Topics vary from current issues to advances in theory and methods.</td>
<td>3</td>
<td>UG SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 21</td>
<td>STT6640</td>
<td>6640</td>
<td>STT Statistics</td>
<td>STT Classification. Resampling methods including bootstrapping. Regularization. Splines. Classification and regression trees. Bagging and boosting. Random forest. Unsupervised learning including principal component analysis. Software used for this course includes R. Department Managed Prerequisite(s): Graduate level STT 5600 Minimum Grade of D and Graduate level STT 5610 Minimum Grade of D.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>STT3960</td>
<td>3960</td>
<td>STT Statistics</td>
<td>STT Topics in Stat and Prob Titles vary.</td>
<td>1</td>
<td>UG IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 21</td>
<td>STT6660</td>
<td>6660</td>
<td>STT Statistics</td>
<td>STT Statistical Methods I Simple linear regression and correlation analysis. Concepts of matrix algebra, the matrix approach for regression and multiple regression. The general linear model. An introduction to generalized linear models. Single factor analysis of variance and multiple comparisons. Nonparametric methods. Statistical software packages will be used. Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D and (Undergraduate level STT 2640 Minimum Grade of D or Undergraduate level STT 3610 Minimum Grade of D).</td>
<td>4</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>NUR7355</td>
<td>7355</td>
<td>NUR Nursing</td>
<td>NUR Practicum in Nsg Ed Observation, participation, and practice in teaching nursing concepts. Application of previous learning with emphasis on the nurse educator role. Clinical practicum required.</td>
<td>4</td>
<td>GR SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 21</td>
<td>FR4930</td>
<td>4930</td>
<td>FR French</td>
<td>FR Franco-American Films This course will examine the Americanization of selected French language films as a powerful tool for cross-cultural comparison. Film pairs analyzed may include Breathless and À Bout de souffle, Les Visiteurs and Just Visiting, La Femme infidèle and Unfaithful etc. Taught in French. Integrated Writing course. Department Managed Prerequisite(s): (Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D).</td>
<td>3</td>
<td>UG LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ATH4410</td>
<td>4410</td>
<td>ATH Anthropology</td>
<td>ATH Historical Archaeology Reviews the archaeology of the post-European discovery period in North America. Seminar discussions focus on such topics as the Colonial period, plantation systems and the archaeology of slavery, nineteenth-century sites, industrial sites, and urban sites. May include a small analysis project utilizing excavated materials from Ohio historic sites.</td>
<td>3</td>
<td>UG SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 21</td>
<td>BME7380</td>
<td>7380</td>
<td>BME Biomedical Engineering</td>
<td>BME Near to Beh - Hlth &amp; Dis The course presents the stretch reflex as an example of a neural circuit and how it mediates movement. Discussion of the neuronal components that form the stretch reflex circuit and how electrical signals are generated and processed in this circuit under normal and pathological conditions.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>ED6060</td>
<td>6060</td>
<td>ED Education</td>
<td>ED Reading and Literacy I Introduction to the content knowledge of the structure of literacy and reading/writing instruction. Candidates explore instructional strategies for reading and writing and the theory that supports scientifically based instruction.</td>
<td>3</td>
<td>GR LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 21</td>
<td>PSI9620</td>
<td>9620</td>
<td>PSI Professional Psychology</td>
<td>PSI Con &amp; Inter in Pri Ca Se To provide students with explicit (textbook) and tacit (experiential) knowledge of behavioral health service provision in an integrated primary care clinic serving a low-income population of patients. The course will be a combination of text-book readings and discussions as well as a laboratory component. The lab component will involve Instructor supervision of student’s shadowing and observation of primary care providers, conducting initial consultation appointments, practicing behavioral and cognitive interventions, and providing feedback to referring providers.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 21</td>
<td>EES6320</td>
<td>6320</td>
<td>EES Microbiology</td>
<td>EES Env Microbiology EES Earth &amp; Environmental Sciences Examines how microorganisms interact with abiotic resources to affect natural and human-created systems, using a multidisciplinary approach drawing on tools from microbiology, aquatic chemistry, soil science, limnology and oceanography, analytical chemistry, ecology, geology, and biochemistry.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ART6120</td>
<td>6120</td>
<td>ART Art</td>
<td>ART Adv St Medieval Art Intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>ENG3650</td>
<td>3650</td>
<td>ENG English</td>
<td>ENG Writing Nonfiction ENG English Advanced strategies for writing nonfiction for non-academic purposes and audiences in various styles, genres, and media.</td>
<td>3</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 21</td>
<td>MUA2420</td>
<td>2420</td>
<td>MUA Music</td>
<td>MUA Applied Music MUA Music: Applied Music Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
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<td>UG IS</td>
<td>Independent Study</td>
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<td>Semester</td>
<td>Type</td>
<td>Location</td>
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<tr>
<td>PN7900</td>
<td>7900</td>
<td>Physiology Seminar</td>
<td>Two seminars (Anatomy Seminar I and II) run concurrent with the Department of Neuroscience, Cell Biology and Physiology Seminar Series.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>PN 7900</td>
<td></td>
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<tr>
<td>EDL7320</td>
<td>7320</td>
<td>Implant &amp; Analyze Roach</td>
<td>Implement and analyze a research project.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>EDL 7320</td>
<td></td>
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<tr>
<td>CEG6330</td>
<td>6330</td>
<td>Micropro Embedded System</td>
<td>Introduction to small, special-purpose microprocessor systems. Topics include hardware design issues, software design and implementation, and real-time operating systems.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>CEG 6330</td>
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<td>REL3780</td>
<td>3780</td>
<td>Apocalypse of John</td>
<td>A literary and historical study of the Book of Revelation in its original setting with a consideration of its ongoing influence.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>REL 3780</td>
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<tr>
<td>REL5450</td>
<td>5450</td>
<td>Daoism</td>
<td>A survey of the various expressions of Daoism in Chinese religious and intellectual history. Includes classical Daoist writings such as: Inward Training, the Daode jing, and the Zhuangzi. Topics include religion and politics, cosmology, self-cultivation, and the Daoist sage. Focus will also include more contemporary expressions of Daoism such as: influential Western interpretations of Daoism, Daoism and ecology, and Daoist body cultivation.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>REL 5450</td>
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<tr>
<td>MP4810</td>
<td>4810</td>
<td>Practicum in Filmmaking</td>
<td>Credit for professional-caliber production work in a chosen role which may include developing a fully formed feature documentary treatment; writing a feature-length screenplay; or working on a senior practicum production as writer and/or director, director of photography, art director or editor.</td>
<td>Spring 2021</td>
<td>Practicum</td>
<td>MP 4810</td>
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</tr>
<tr>
<td>SLI4510</td>
<td>4510</td>
<td>Ed Interp: Eng. to Sign</td>
<td>Enhancing English to sign skills for interpreters working in K-12 educational settings with deaf students. Proficiency related to the requisite skills for the Educational Interpreter Performance Assessment (EIPA)</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>SLI 4510</td>
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<tr>
<td>CL4220</td>
<td>4220</td>
<td>Laboratory Management</td>
<td>Principles of education, laboratory management, computer application and completion and presentation of a scientific project. Integrated Writing course.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>CL 4220</td>
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</tr>
<tr>
<td>CHM1210L</td>
<td>1210L</td>
<td>General Chemistry Lab I</td>
<td>Examination of the principles of General Chemistry I through experimentation.</td>
<td>Spring 2021</td>
<td>Lab</td>
<td>CHM 1210L</td>
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</tr>
<tr>
<td>PSI9660</td>
<td>9660</td>
<td>Prof. Ethics and Issues</td>
<td>Provides a working knowledge of APA ethical principles and code of conduct, Ohio law and rules governing psychologists, and basic principles of risk management. Increases sensitivity to potential ethical dilemmas and develops skills in identifying and resolving ethical dilemmas in professional psychology.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>PSI 9660</td>
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</tr>
<tr>
<td>ED4410</td>
<td>4410</td>
<td>MCE Internship II-StuTch</td>
<td>Teacher candidates are assigned to a school for intensive teaching experience in grades 4-9 under the direct supervision of an experienced classroom teacher.</td>
<td>Spring 2021</td>
<td>Internship</td>
<td>ED 4410</td>
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<tr>
<td>EDL39920</td>
<td>9920</td>
<td>Schl Culture Prof Growth</td>
<td>Exploring the relationships between organizational change, professional growth, and leadership. Candidates engage in theoretical and research-based readings, discussions and activities regarding change, innovation, leadership, organizational culture, and professional development.</td>
<td>Spring 2021</td>
<td>Seminar</td>
<td>EDL 39920</td>
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<tr>
<td>MUA4420</td>
<td>4420</td>
<td>Applied Music</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td>Spring 2021</td>
<td>Independent Study</td>
<td>MUA 4420</td>
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</tr>
<tr>
<td>CHM1020L</td>
<td>1020L</td>
<td>Elem Organic Chem w/App Lab</td>
<td>Required laboratory for CHM 1020.</td>
<td>Spring 2021</td>
<td>Lab</td>
<td>CHM 1020L</td>
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</tr>
<tr>
<td>PTX7120</td>
<td>7120</td>
<td>Journal Club</td>
<td>WSU faculty driven course. Students are presented with current literature on around a specific topic. The students will give presentations on the material.</td>
<td>Spring 2021</td>
<td>Seminar</td>
<td>PTX 7120</td>
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<tr>
<td>HST6450</td>
<td>6450</td>
<td>Middle Eastern History</td>
<td>Examines the Middle East from the 7th century to the present. Topics vary.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>HST 6450</td>
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<tr>
<td>BIO6440</td>
<td>6440</td>
<td>Plant Physiology</td>
<td>Course covers plant physiology, including the major features of nutrition, photosynthesis, transport, hormones, development, and environmental responsiveness. Laboratory will expose students to analytical techniques, experimental design, and interpretation and communication of scientific results.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>BIO 6440</td>
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</tr>
<tr>
<td>ENG2140</td>
<td>2140</td>
<td>Research &amp; Argument</td>
<td>Adapts principles introduced in ENG 1100 and equivalents to writing for professional audiences in engineering and computer science and lay readers. stresses argument, research, and effective use of source materials.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>ENG 2140</td>
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</tr>
<tr>
<td>EDT8250</td>
<td>8250</td>
<td>Digital Citizenship</td>
<td>Examines the issues and responsibilities of using digital technologies. Consideration of issues of intellectual property rights, ethics, managing online reputation, and professional responsibilities.</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>EDT 8250</td>
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<tr>
<td>Quarter</td>
<td>Code</td>
<td>Section</td>
<td>Title</td>
<td>Notes</td>
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<tr>
<td>Spring 2021</td>
<td>LEP0590</td>
<td>0590</td>
<td>English for EMBA</td>
<td>UG LE Lecture</td>
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<td>LEP LEAP 0</td>
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<td>English for EMBA is designed especially for students in the College of Business Executives MBA Program. The course is intended to improve students four core competencies (reading, writing, speaking, listening), as well as broaden their knowledge of American culture and skills for daily life, business practices, and etiquette.</td>
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<tr>
<td>Spring 2021</td>
<td>NUR7098</td>
<td>7098</td>
<td>Supervised Nursing Res Exp</td>
<td>GR LE Lecture</td>
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<td>NUR Nursing 1</td>
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<td>Guided exploration of research problem(s) under direct supervision of experience researcher.</td>
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<tr>
<td>Spring 2021</td>
<td>ECE4040</td>
<td>4040</td>
<td>ECE-Gen Math Instruction</td>
<td>UG LE Lecture</td>
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<td>ECE Education - Early Childhood</td>
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<td>Methods for teaching middle level mathematics pertinent to the Ohio Learning Standards with emphasis on content, developmentally appropriate pedagogy, curricula and materials suitable for teaching fourth and fifth grade mathematics education.</td>
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<tr>
<td>Spring 2021</td>
<td>EES6230</td>
<td>6230</td>
<td>Intro to the Ocean</td>
<td>GR LE Lecture</td>
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<td></td>
<td>EES Earth &amp; Environmental Sciences</td>
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<td>This course covers the fundamental principles and processes of oceanography for students with background in geology but not oceanography. The content is general but the emphasis is toward the needs of Earth Science teachers. The student will need to be able to use the Internet and some basic computer tools such as Word and Excel.</td>
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<td>Spring 2021</td>
<td>DMV4010</td>
<td>4010</td>
<td>DMV Registration</td>
<td>UG LE Lecture</td>
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<td>DMV DMV Consortium</td>
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<td>0.5 Application of statics, dynamics, thermodynamics, fluid mechanics, and heat transfer to the design of mechanical systems using numerical methods. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3360 Minimum Grade of D and Undergraduate level ME 3210 Minimum Grade of D&lt;/b&gt;</td>
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<td>Spring 2021</td>
<td>PLS6050</td>
<td>6050</td>
<td>Pol Polarization Am Politics</td>
<td>GR LE Lecture</td>
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<td></td>
<td>PLS Political Science</td>
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<td>Explores the causes and consequences of the deepening political divide in the U.S. Evaluates the role played by political elites and institutions such as the media and political parties in furthering political division.</td>
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<td>Spring 2021</td>
<td>ATH4210</td>
<td>4210</td>
<td>Biomedical Anthropology</td>
<td>UG LE Lecture</td>
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<td></td>
<td>ATH Anthropology</td>
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<td>An anthropological perspective of human health integrating biological and socio-cultural dimensions of health and illness in selected societies of the contemporary world and in the past.</td>
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<td>Spring 2021</td>
<td>ME4440</td>
<td>4440</td>
<td>Aerospace Propulsion</td>
<td>UG LE Lecture</td>
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<td>ME Mechanical and Materials Engr</td>
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<td>Engine cycle analysis; combustion fundamentals; reciprocating engines, propellers; applications to turbojet, turbofan, turboprop, ramjet, SCRAM jet, and rocket engines. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 3350 Minimum Grade of D&lt;/b&gt;</td>
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<tr>
<td>Spring 2021</td>
<td>URS4430</td>
<td>4430</td>
<td>Administrative Law</td>
<td>UG LE Lecture</td>
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<td>URS Urban Affairs</td>
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<td>Constitutional foundations of administrative law and the legal context of federal, state and local administrative rule making and adjudication.</td>
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<tr>
<td>Spring 2021</td>
<td>SW4620</td>
<td>4620</td>
<td>Social Gerontology I</td>
<td>UG LE Lecture</td>
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<td>SW Social Work</td>
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<td>Study of the social aspects of aging, the needs of the aging population, and society's response to those needs. A life course perspective that incorporates cultural, economic, historical, and structural contexts provides the framework for examining aging-related issues, particularly in regards to the impact on quality of life for older adults.</td>
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<tr>
<td>Spring 2021</td>
<td>BIO4530</td>
<td>4530</td>
<td>Respiratory Physiology</td>
<td>UG LE Lecture</td>
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<td></td>
<td></td>
<td>BIO Biology</td>
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<td>An in-depth exploration of oxygen transport for cellular respiration.</td>
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<td>Spring 2021</td>
<td>PL56870</td>
<td>6870</td>
<td>Politics of Intelligence</td>
<td>GR LE Lecture</td>
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<td></td>
<td>PL5 Political Science</td>
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<td>Examines the history and politics of intelligence gathering, analysis and application in policy making in the United States. Addresses the tension inherent to a secret agency operating within a democratic state and considers the role of technology.</td>
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<tr>
<td>Spring 2021</td>
<td>PLS4750</td>
<td>4750</td>
<td>Weapons Mass Destruct</td>
<td>UG SE Seminar</td>
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<td>PLS Political Science</td>
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<td>Examines various issues relating to weapons of mass destruction, including their manufacture, use, effects, and the politics surrounding decisions to acquire them. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>ATH4600</td>
<td>4600</td>
<td>African Oral Traditions</td>
<td>UG LE Lecture</td>
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<td></td>
<td>ATH Anthropology</td>
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<td>Study of oral traditions in Africa, including oral traditions, oral history, and societies with combinations of oral traditions and written history. Explores how oral traditions are generated, their contexts, and their significance for those who produce them. Applicable to many situations beyond the continent of Africa. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>MUE4900</td>
<td>4900</td>
<td>University Chorus</td>
<td>UG LL Lecture/Lab Combination</td>
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<td></td>
<td>MUE Music: Ensembles</td>
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<td>Development of choral and vocal skills. Choral literature from a wide range of historical and compositional styles. No audition required.</td>
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<tr>
<td>Spring 2021</td>
<td>HIST4000</td>
<td>4000</td>
<td>Ancient History</td>
<td>UG LE Lecture</td>
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<td>HIST History</td>
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<td>Selected problems in Greek or Roman history to the death of Constantine in A.D. 337. Integrated Writing course.</td>
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<tr>
<td>Spring 2021</td>
<td>BM59950</td>
<td>9950</td>
<td>Non-Dissertation</td>
<td>GR LE Lecture</td>
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<td></td>
<td>BMS Biomedical Sciences</td>
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<td>Supervised research other than laboratory rotations or dissertation research. Pass/unsatisfactory grades.</td>
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<tr>
<td>Spring 2021</td>
<td>MTH4520</td>
<td>4520</td>
<td>Modern Algebra II</td>
<td>UG LE Lecture</td>
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<td>MTH Mathematics</td>
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<td>Examples and elementary properties of abstract algebraic structures, including groups, rings, integral domains, and fields.</td>
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<tr>
<td>Spring 2021</td>
<td>ART4130</td>
<td>4130</td>
<td>Adv Stud Renaissance Art</td>
<td>UG LE Lecture</td>
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<td>ART Art</td>
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<td>Intensive studies of the period, major movements, and artists of the time. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ART 3130 Minimum Grade of D&lt;/b&gt;</td>
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<tr>
<td>Spring 2021</td>
<td>Class Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Course Description</td>
<td>Degree Code</td>
<td>Component Code</td>
<td>Course Type</td>
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<td>CLS2040</td>
<td>2040</td>
<td>3</td>
<td>Great Books - Classics</td>
<td>Introduction to interpreting literature, using selected texts from ancient Greece and Rome, viewed in their socio-historical contexts and read for their value in treating more general themes of the human experience. Integrated Writing course.</td>
<td>UG LE</td>
<td>Lecture</td>
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<td>BIO6070</td>
<td>6070</td>
<td>5</td>
<td>Wetlands Biology</td>
<td>Ecological investigation of wetlands of the U.S. with emphasis on the Midwest. Primarily field oriented with some lecture. Covers soils, vegetation, hydrology, conservation, and restoration. Requires two weekend trips and written report.</td>
<td>GR LL</td>
<td>Lecture/Lab Combination</td>
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<tr>
<td>ED6090</td>
<td>6090</td>
<td>3</td>
<td>Assessment/Intervention</td>
<td>Candidates will learn to use a range of literacy assessment instruments to assess student reading and writing performance and to determine best practices interventions in order to meet student needs.</td>
<td>GR LL</td>
<td>Lecture/Lab Combination</td>
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<td>TH2160</td>
<td>2160</td>
<td>1</td>
<td>Singing for Actor IV</td>
<td>Private singing lessons for acting, theatre studies and dance majors only.</td>
<td>UG ST</td>
<td>Studio</td>
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<tr>
<td>OL3030</td>
<td>3030</td>
<td>3</td>
<td>Interpersonal Leadership</td>
<td>Focus on developing and using emotional intelligence (EI) competencies for effectively leading others.</td>
<td>UG LE</td>
<td>Lecture</td>
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<tr>
<td>TH3260</td>
<td>3260</td>
<td>3</td>
<td>Costume Design</td>
<td>Costume design for the theatre. Includes project design work with an emphasis on professional technique and period design.</td>
<td>UG ST</td>
<td>Studio</td>
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<tr>
<td>EES6370</td>
<td>6370</td>
<td>4</td>
<td>Seismic Processing</td>
<td>Students learn the theory and practice of computer processing of seismic reflection data. Every step in this technology is taught including seismic data formats, seismic data manipulation, filtering, velocity analysis, stacking and migration. We deal with both land and marine data. The student has hands-on experience with industry-standard software packages.</td>
<td>GR LE</td>
<td>Lecture</td>
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<tr>
<td>CHI3110</td>
<td>3110</td>
<td>3</td>
<td>Chinese Conversation</td>
<td>This course will pursue a balance of the four basic language skills: reading, writing, listening, and speaking in Chinese with a focus on conversation. Department Managed Prerequisite(s): Undergraduate level CHI 2020 Minimum Grade of D or AP Chinese Language &amp; Culture 4.</td>
<td>UG LE</td>
<td>Lecture</td>
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<td>PSY8500</td>
<td>8500</td>
<td>3</td>
<td>Seminar in I/O</td>
<td>Weekly discussions of topics in Industrial/Organizational Psychology.</td>
<td>GR SE</td>
<td>Seminar</td>
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<td>EDS4670</td>
<td>4670</td>
<td>3</td>
<td>Collaboration for Inclusion</td>
<td>Co-teaching techniques with an emphasis on differentiation, as well as collaborative consultation and communication strategies to enhance instruction for diverse learners. Integrated Writing course.</td>
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<td>PSI8030</td>
<td>8030</td>
<td>3</td>
<td>Social Psychology</td>
<td>Presents theories and experimental findings regarding determinants of social behavior, including social motivation, attribution theory, perception of people, attitude theories, group processes, interpersonal attraction, and environmental determinants of behavior.</td>
<td>GR LE</td>
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<td>BIO4000</td>
<td>4000</td>
<td>1</td>
<td>Senior Capstone</td>
<td>Students research and evaluate scientific literature and techniques to create and give oral presentations. Integrated Writing course.</td>
<td>UG IS</td>
<td>Independent Study</td>
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<td>BME6710</td>
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<td>3</td>
<td>Optical Imaging</td>
<td>Biophotonics and optical imaging concepts. Basic optics, light propagation in tissue, modern microscopy techniques, diagnostic use of lasers (optical biopsies, optical spectroscopy, optical imaging), thermal aspects of light-tissue interaction, therapeutic use of laser (laser ablation, photodynamic therapy, light-activated therapy), novel technologies and applications including optical molecular imaging. Includes microscopy facility tour and small lab experiments. Department Managed Prerequisite(s): Undergraduate level PHY 2410 Minimum Grade of D.</td>
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<td>EES6460</td>
<td>6460</td>
<td>3</td>
<td>Sequence Stratigraphy</td>
<td>Examines the mechanisms that produce sea-level change, how sediments respond to changes in sea-level, and how the architecture of basins may be assessed using the sequence stratigraphic model. Topics include the scales of stratigraphic cycles, seismic applications and outcrop scale high resolution sequence stratigraphy.</td>
<td>GR LE</td>
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<td>COM3660</td>
<td>3660</td>
<td>3</td>
<td>Advanced News Writing</td>
<td>Advanced study of writing skills, practices, and procedures used in reporting news for mass media. Reporting in the field required. Integrated Writing course.</td>
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<td>MLB4730</td>
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<td>3</td>
<td>Diagnostic Micro Prac</td>
<td>Practical application of microbiology techniques at a clinical site.</td>
<td>UG PR</td>
<td>Practicum</td>
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<td>PHY6320</td>
<td>6320</td>
<td>3</td>
<td>Lasers</td>
<td>Introduction to the physics of lasers including emission and absorption processes in lasers, the factors controlling laser gain, the properties of optical resonators, and a survey of salient features for principal types of lasers.</td>
<td>GR LL</td>
<td>Lecture/Lab Combination</td>
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<td>DAN2510</td>
<td>2510</td>
<td>3</td>
<td>Dance History I</td>
<td>Survey of Western theatrical dance from its roots in early cultures to the early twentieth century.</td>
<td>UG LL</td>
<td>Lecture/Lab Combination</td>
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<td>CHM6680</td>
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<td>Exp Nanomaterials</td>
<td>CHM</td>
<td>Chemistry</td>
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<td>KNH7140</td>
<td>7140</td>
<td>Teach Adapted Aquatics</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
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<td>TH4570</td>
<td>4570</td>
<td>Singing Mus Theatre VII</td>
<td>TH</td>
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<td>ED2260</td>
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<td>Math PCK Seminar</td>
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<td>Interdisc Film Studies</td>
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<td>Film and Media Studies</td>
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<td>Chemical Crystallography</td>
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<td>Golf</td>
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<td>Sex Drugs &amp; HIV</td>
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<td>WGS3700</td>
<td>3700</td>
<td>Research Methods in LA</td>
<td>Introduces social science and humanities majors to research design, and the kinds of data produced, in describing, explaining, and understanding social problems.</td>
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<td>ASM7472</td>
<td>7472</td>
<td>Social Behavioral Scienc</td>
<td>This course takes a look at combined major public health issues dealing with lifestyle and behavioral health issues. It is structured mainly in a seminar and project style of instruction.</td>
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<td>EC7090</td>
<td>7090</td>
<td>Applied Econometrics</td>
<td>Application of economic theory, mathematical modeling, and statistics to the measurement and forecasting of economic relationships. Emphasis is on specification, estimation, and hypothesis testing. Department Managed Prerequisite(s): Graduate level MBA 5200 Minimum Grade of C or Graduate level MBA 5800 Minimum Grade of C or Undergraduate level EC 1050 Minimum Grade of C.</td>
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<td>LDR7600</td>
<td>7600</td>
<td>Research Project</td>
<td>This course guides individual research projects to ensure that the project demonstrates the student's ability to take a problem from inquiry and data gathering, through analysis and solution identification, to formal presentation.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
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<td>AFS6030</td>
<td>6030</td>
<td>History of Ideas of Race</td>
<td>Examines the development of various ideas of race from 1600 to the present.</td>
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<td>KNH1260B</td>
<td>1260B</td>
<td>H2O Deep Conditioning</td>
<td>Fundamental skills and knowledge of H2O Deep Conditioning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>BIO4010</td>
<td>4010</td>
<td>Topics in Modern Biology</td>
<td>Advanced topics in modern biology of current interest. Topics vary.</td>
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<td>ART4070</td>
<td>4070</td>
<td>Studies in Printmaking</td>
<td>Provides opportunities to explore problems and approaches to printmaking and may include cross-media and interdisciplinary studies. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 2090 Minimum Grade of D and Undergraduate level ART 2280 Minimum Grade of D.</td>
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<td>LB</td>
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<td>EC5090</td>
<td>5090</td>
<td>Statistics for Economics</td>
<td>Elementary statistical concepts for economic applications.</td>
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<tr>
<td>PSY4610</td>
<td>4610</td>
<td>Human-Comp Interface Cap</td>
<td>Communication intensive seminar integrating knowledge on human-computer interface issues. Integrated Writing course.</td>
<td>UG</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>PTX8010</td>
<td>8010</td>
<td>Clinical Research: Roles &amp; Res</td>
<td>This required course offers a solid foundation in clinical research with the goal to protect the welfare of research participants, improve global health and provide foundational knowledge and skills the student will need to become leaders in the field, whether working in academia, government, industry or other areas. Specifically, this course will prepare the student to pass the standardized ACRP CRA Certification Exam to become a Certified Clinical Research Associate with an emphasis on clinical trials related to drug protocol development, drug approval process, phases of clinical research investigation, FDA rules and regulations, as well as business management, budgeting and marketing for clinical trials. Department Managed Prerequisite(s): Undergraduate level ME 2120 Minimum Grade of D and (Undergraduate level ME 1020 Minimum Grade of D or Undergraduate level CEG 2200 Minimum Grade of D).</td>
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<td>ME5120</td>
<td>5120</td>
<td>Mechanics of Materials</td>
<td>Introduction to stress and deformation in deformable solids. Topics include axial loading, torsion, pure bending, shear stresses in beams, design of beams under transverse loading, thin-wall pressure vessels, transformation of stress, stresses under combined loadings, deflection of beams and buckling. Department Managed Prerequisite(s): Undergraduate level ME 2120 Minimum Grade of D and (Undergraduate level ME 1020 Minimum Grade of D or Undergraduate level CEG 2200 Minimum Grade of D).</td>
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<td>ME4490</td>
<td>4490</td>
<td>Aerospace Structures</td>
<td>Stress, deformation, and stability analysis of aerospace structures. Thin-walled members bending, torsion, and shear stresses calculation in multicell structures. Buckling of thin plates. Department Managed Prerequisite(s): Undergraduate level ME 3120 Minimum Grade of D.</td>
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<td>TH3250</td>
<td>3250</td>
<td>Set Design</td>
<td>Scenic design and the dynamics of stage space. Includes project design work emphasizing period research, communicating ideas visually with the director and production team, and designing for different types of spaces.</td>
<td>UG</td>
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<td>Lecture/Lab Combination</td>
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<td>LAT5550</td>
<td>5550</td>
<td>Readings in Roman Poetry</td>
<td>Roman lyric and elegiac poetry: Virgil's Eclogues; Catullus, Horace, Propertius, Tibullus, and Ovid. Topics include meters and style of Latin lyric, amatory tradition, and the influence of Hellenistic poetry. Titles vary. Department Managed Prerequisite(s): Undergraduate level ART 2280 Minimum Grade of D.</td>
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<td>MIE6200</td>
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<td>Neuronal-Immune Sy Homeostasis</td>
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<td>MI</td>
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<td>Microbiology &amp; Immunology</td>
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<td>MUA4120</td>
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<td>Development of choral and vocal skills. Choral literature from a wide range of historical and compositional styles. No audition required.</td>
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<td>REL3210</td>
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<td>REL</td>
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<td>Environ Field Techniques</td>
<td>EES Earth &amp; Environmental Sciences 2</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS4810</td>
<td>4810</td>
<td>Bioinformatic Algorithms</td>
<td>CS Computer Science 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EGR1980</td>
<td>1980</td>
<td>Special Topics in EGR</td>
<td>EGR Engineering 1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FR4810</td>
<td>4810</td>
<td>Independent Study</td>
<td>FR French 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT6110</td>
<td>6110</td>
<td>Applied Time Series</td>
<td>STT Statistics 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LAW3000</td>
<td>3000</td>
<td>Legal Env of Business</td>
<td>LAW Law 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES7200</td>
<td>7200</td>
<td>Apps Isotopes in Env Sci</td>
<td>EES Earth &amp; Environmental Sciences 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1610A</td>
<td>1610A</td>
<td>Strengthen &amp; Tone</td>
<td>KNH Kinesiology &amp; Health 1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7540</td>
<td>7540</td>
<td>VLSI Testing Design</td>
<td>EE Electrical Engineering 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS3510</td>
<td>3510</td>
<td>Intro Animal Health Phys</td>
<td>FAS Food and Agricultural Systems 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3400</td>
<td>3400</td>
<td>Special Topics Biologica</td>
<td>ATH Anthropology 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PN6690</td>
<td>6690</td>
<td>Quant Aspects Mem Trans</td>
<td>PN Physiology &amp; Neuroscience 2</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS3270</td>
<td>3270</td>
<td>March Band/Jazz Ens Meth</td>
<td>MUS Music 2</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7100</td>
<td>7100</td>
<td>Adv. Prog. Languages</td>
<td>CS Computer Science 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN4110</td>
<td>4110</td>
<td>Modern Dance IV</td>
<td>DAN Dance 3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED8810</td>
<td>8810</td>
<td>Theor Persp Action Ranch</td>
<td>ED Education 3</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>CRN</td>
<td>Course Title</td>
<td>Division</td>
</tr>
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<tr>
<td>Spring 2021</td>
<td>EDS6090</td>
<td>6090</td>
<td>Dyslexia Mids&amp;Assessment</td>
<td>EDS</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Education - Special Education</td>
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<td></td>
<td>Explore various assessments to administer, analyze, and interpret specifically for learners with dyslexia. Apply assessment knowledge and skills to a struggling learner to create a case study assessment report and plan for specific classroom accommodations.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR2030</td>
<td>2030</td>
<td>Teaching Net/Wall Games</td>
<td>HPR</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Health Phy Educ &amp; Recreation</td>
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<td></td>
<td>This activity class models best teaching practices in net/wall games such as badminton, tennis, and volleyball. Students are required to demonstrate skill competency.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MS2050</td>
<td>2050</td>
<td>Quant Business Modeling</td>
<td>MS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Management Science</td>
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<td></td>
<td>Development and interpretation of inferential statistical models applied to business. Estimation models, decision analysis and hypothesis testing models and regression models. Use of statistical software.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4370</td>
<td>4370</td>
<td>Criminal Procedure</td>
<td>PLS</td>
</tr>
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<td></td>
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<td>Political Science</td>
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<td>Constitutional protections of the individual confronting the criminal justice system. Case law pertaining to the Fourth Amendment (search and seizure), Fifth Amendment (self-incrimination), and Sixth Amendment (right to counsel).</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN3210</td>
<td>3210</td>
<td>Jazz/Theatre Dance III</td>
<td>DAN</td>
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<td></td>
<td></td>
<td></td>
<td>Dance</td>
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<td>Diversified styles and techniques of jazz/musical theatre dancing. Emphasis on continued development of intricate rhythms, sophisticated syncopation, complex coordination, musicality, and variation of style. Focus on increasing body strength, flexibility, and kinesthetic awareness within the jazz idiom.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3530</td>
<td>3530</td>
<td>Asian Religious Ethics</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Religion</td>
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<td>Explores ethics and morality as construed in a variety of Asian religious traditions including Hinduism, Buddhism, Jainism, and Confucianism. Reading of primary sources ranging from analytic ethical debates to popular folktales in which moral and immoral behavior figure prominently. Exposure to a variety of cultural approaches to universal human problems and critical reading of primary sources.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ASL1010</td>
<td>1010</td>
<td>Beginning ASL I</td>
<td>ASL</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>American Sign Language</td>
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<td></td>
<td>An introduction to fundamental vocabulary and conversational skills in American Sign Language, including basic sentence structure of ASL, fingerspelling and numbers and exposure to Deaf culture. Outside activity required.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6600</td>
<td>6600</td>
<td>Human Factors Cap</td>
<td>PSY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Psychology</td>
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<td>Communication-intensive seminar integrating knowledge on human factors psychology. Topics will vary.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ENG3400</td>
<td>3400</td>
<td>Studies in African Lit</td>
<td>ENG</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
<td></td>
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<td></td>
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<td>Representative works of established and emerging African writers.</td>
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<tr>
<td>Spring 2021</td>
<td>TH4100</td>
<td>4100</td>
<td>Stage Manage Practicum</td>
<td>TH</td>
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<td></td>
<td></td>
<td></td>
<td>Theatre</td>
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<td></td>
<td></td>
<td></td>
<td>Participation in departmental theatre stage management activities. Specific assignments determined at initial meeting.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG8900</td>
<td>8900</td>
<td>Selected Topics in CEG</td>
<td>CEG</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Computer Engineering</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Selected topics in computer engineering.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH6990</td>
<td>6990</td>
<td>Selected Topics</td>
<td>MTH</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Mathematics</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Selected topics in mathematics.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS3250</td>
<td>3250</td>
<td>Urban Youth</td>
<td>URS</td>
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<td></td>
<td>Urban Affairs</td>
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<td></td>
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<td></td>
<td>Diverse experiences of urban youth and effect of urban experiences on students, teachers, schools, and communities. Methods for providing resource access for all.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>SPN4030</td>
<td>4030</td>
<td>Adv Studies: Lang Civil</td>
<td>SPN</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Spanish</td>
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<td></td>
<td>Topics vary. Conducted in Spanish. Integrated writing course:&lt;b&gt; Department Managed Prerequisite(s): (Undergraduate level SPN 3210 Minimum Grade of D or Undergraduate level SPN 3250 Minimum Grade of D) and (Undergraduate level SPN 3310 Minimum Grade of D or Undergraduate level SPN 3320 Minimum Grade of D)&lt;b&gt;</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED6020</td>
<td>6020</td>
<td>Read &amp; Lit I: Int Spec</td>
<td>Ed</td>
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<td></td>
<td>Education</td>
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<td>Content knowledge of the structure of literacy and reading/writing instruction; instructional strategies for reading and writing and the theory that supports scientifically-based instruction.</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ANT6990</td>
<td>6990</td>
<td>Lab Rotation</td>
<td>ANT</td>
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<td></td>
<td></td>
<td></td>
<td>Anatomy</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Special Anatomical problems or research designed for specific needs and talents of the student.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE6250</td>
<td>6250</td>
<td>Curriculum &amp; Assessment</td>
<td>CTE</td>
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<td></td>
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<td></td>
<td>Career and Technical Education</td>
<td></td>
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<td></td>
<td>Investigates ways in which schools approach curriculum, assessment and continuous improvement. Includes alignment of standards with curriculum, instruction and assessments, increased attention to student learning and increased faculty collaboration.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS3870</td>
<td>3870</td>
<td>Practicum II</td>
<td>FAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Food and Agricultural Systems</td>
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<td>Individualized, supervised learning experience including on-site seminars under the direction of the instructor and on-site staff. &lt;b&gt;Department Managed Prerequisite(s): Department Managed Prerequisite(s): Department Managed Prerequisite(s): Undergraduate level FAS 2870 Minimum Grade of D&lt;/b&gt;</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1220B</td>
<td>1220B</td>
<td>Fencing: Competitive</td>
<td>KNH</td>
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<td></td>
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<td></td>
<td>Kinesiology &amp; Health</td>
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<td></td>
<td>Intermediate level of skills and knowledge in Fencing: Competitive. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART5120</td>
<td>5120</td>
<td>Studies in Medieval Art</td>
<td>ART</td>
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<tr>
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<td></td>
<td>Art</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>CRN</td>
<td>Title</td>
<td>Department</td>
<td>Type</td>
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<tr>
<td>EDS5990</td>
<td>5990</td>
<td>Language &amp; Phonics for Learners w/Dys</td>
<td>EDS</td>
<td>Lecture</td>
</tr>
<tr>
<td>EDS5990</td>
<td>5990</td>
<td>This course involves an in-depth understanding of how structured language and phonics impacts learners with dyslexia, phonics knowledge, and the use of research-supported instructional procedures and strategies in working with learners with dyslexia.</td>
<td>EDS</td>
<td>Lecture</td>
</tr>
<tr>
<td>EDL8730</td>
<td>8730</td>
<td>Bldg Budget, Mgmt, SS</td>
<td>EDL</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>EDL8730</td>
<td>8730</td>
<td>Leading the pupil personnel service aspects of school operation, including ethical considerations, special education requirements, student attendance and accounting, guidance, counseling, health and wellness, discipline, and extracurricular/co-curricular activities.</td>
<td>EDL</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>PTX7500</td>
<td>7500</td>
<td>Research Techniques</td>
<td>PTX</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>PTX7500</td>
<td>7500</td>
<td>Practical laboratory experiences in commonly used biological techniques including DNA purification and manipulation, protein expression and analysis, and the classical pharmacological techniques of mediating receptor binding. Designed to give hands-on experience along with a short weekly lecture providing background on the theory behind the topic.</td>
<td>PTX</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>PSY2810</td>
<td>2810</td>
<td>Psychology Incarceration</td>
<td>PSY</td>
<td>Lecture</td>
</tr>
<tr>
<td>PSY2810</td>
<td>2810</td>
<td>Instruction examines the socio-psychological, developmental, mental health factors surrounding the experience of incarcerated persons.</td>
<td>PSY</td>
<td>Lecture</td>
</tr>
<tr>
<td>MLB4820</td>
<td>4820</td>
<td>Adv Immunohematology</td>
<td>MLB</td>
<td>Lecture</td>
</tr>
<tr>
<td>MLB4820</td>
<td>4820</td>
<td>Advanced topics in transfusion medicine, including immune hemolytic anemias, paternity testing, component therapy, HLA antigens, quality assurance and the role of regulatory agencies in the practice of transfusion medicine.</td>
<td>MLB</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS6510</td>
<td>6510</td>
<td>Contemp African Politics</td>
<td>PLS</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS6510</td>
<td>6510</td>
<td>Political processes and governmental institutions of sub-Saharan Africa; special attention to dynamics of political development and socioeconomic change. Comparative analysis of selected African political systems.</td>
<td>PLS</td>
<td>Lecture</td>
</tr>
<tr>
<td>BIO6110</td>
<td>6110</td>
<td>The Aquatic Environment</td>
<td>BIO</td>
<td>Lecture</td>
</tr>
<tr>
<td>BIO6110</td>
<td>6110</td>
<td>Field and laboratory course concerned with the physical, chemical, and biological factors that determine biological productivity in natural waters. 3 hours lecture, 6 hours lab.</td>
<td>BIO</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS3200</td>
<td>3200</td>
<td>Theory of Computing</td>
<td>CS</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS3200</td>
<td>3200</td>
<td>Introduction to the theory of formal languages and automata with an emphasis on the classes of languages commonly encountered by computer scientists. Computability examines the solution of decision problems; the Church-Turing thesis; the undecidability of the Halting Problem; and problem reduction and undecidability.</td>
<td>CS</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS7200</td>
<td>7200</td>
<td>Alg. Design and Analysis</td>
<td>CS</td>
<td>Lecture</td>
</tr>
<tr>
<td>CS7200</td>
<td>7200</td>
<td>Study of algorithmic methods and associated computational complexity for problem solving. Techniques include divide and conquer methods, greedy algorithms, dynamic programming, and parallel algorithms.&lt;b&gt; Department Managed Prerequisite(s):&lt;/b&gt; Undergraduate level CS 3100 Minimum Grade of D or Graduate level CS 5100 Minimum Grade of D.&lt;b&gt;-&lt;/b&gt;</td>
<td>CS</td>
<td>Lecture</td>
</tr>
<tr>
<td>BMS7770</td>
<td>7770</td>
<td>Gene Therapy</td>
<td>BMS</td>
<td>Lecture</td>
</tr>
<tr>
<td>BMS7770</td>
<td>7770</td>
<td>(Also listed as M&amp;I 7770.) The molecular basis of gene therapy and the use of viral gene delivery systems for the treatment of human disease are examined. Gene therapy strategies are contrasted with various diseases, including cancer and AIDS.</td>
<td>BMS</td>
<td>Lecture</td>
</tr>
<tr>
<td>ART5170</td>
<td>5170</td>
<td>Studies Non-Western Art</td>
<td>ART</td>
<td>Lecture</td>
</tr>
<tr>
<td>ART5170</td>
<td>5170</td>
<td>General surveys and intensive studies of periods, major movements, and artists in non-Western art.</td>
<td>ART</td>
<td>Lecture</td>
</tr>
<tr>
<td>HST4810</td>
<td>4810</td>
<td>African-American History</td>
<td>HST</td>
<td>Lecture</td>
</tr>
<tr>
<td>HST4810</td>
<td>4810</td>
<td>Examines topics drawing from the African-American experience; may include black ideology and leadership, racial tension in urban society, and the civil rights movement. Topics vary. Integrated Writing course.</td>
<td>HST</td>
<td>Lecture</td>
</tr>
<tr>
<td>MKT7300</td>
<td>7300</td>
<td>Entrepreneurship</td>
<td>MKT</td>
<td>Lecture</td>
</tr>
<tr>
<td>MKT7300</td>
<td>7300</td>
<td>The course will discuss the role of entrepreneurship in the economy. The course will also discuss how new ventures are developed. The course draws from a number of disciplines including marketing, finance, accounting, management, ethics, and law that form the foundation of a business. The course will include a discussion of the role of business plans and discuss how to prepare a successful business plan.</td>
<td>MKT</td>
<td>Lecture</td>
</tr>
<tr>
<td>KNH2840</td>
<td>2840</td>
<td>Practicum in HPR</td>
<td>KNH</td>
<td>Practicum</td>
</tr>
<tr>
<td>KNH2840</td>
<td>2840</td>
<td>Supervised field work for sophomore students who are seeking certification or a concentration in a specific area. Titles vary. Contact hours vary according to subject. May be taken for a letter grade or pass/unsatisfactory.</td>
<td>KNH</td>
<td>Practicum</td>
</tr>
<tr>
<td>CNL7280</td>
<td>7280</td>
<td>Pro Orient Eth &amp; Leg Iss</td>
<td>CNL</td>
<td>Lecture</td>
</tr>
<tr>
<td>CNL7280</td>
<td>7280</td>
<td>Surveys legal, professional, and ethical issues in counseling. Topics include: historical review, counselor roles and functions, self-care strategies, supervision models, advocacy, professional organizations, and professional credentialing.</td>
<td>CNL</td>
<td>Lecture</td>
</tr>
<tr>
<td>MUE4690</td>
<td>4690</td>
<td>Wind Symphony</td>
<td>MUE</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>MUE4690</td>
<td>4690</td>
<td>The university's most select symphonic band organization, this ensemble performs compositions ranging from traditional classics to innovative contemporary literature, including transcriptions and original works. Audition and instructor permission required.</td>
<td>MUE</td>
<td>Lecture/Lab</td>
</tr>
<tr>
<td>SOC3300</td>
<td>3300</td>
<td>Social Organization</td>
<td>SOC</td>
<td>Lecture</td>
</tr>
<tr>
<td>SOC3300</td>
<td>3300</td>
<td>Theories and analysis of social organization in its historical and present context. Emphasis on the interrelationship between individuals, the family, and other institutions.</td>
<td>SOC</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT1010</td>
<td>1010</td>
<td>Community Leadership</td>
<td>MGT</td>
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<tr>
<td>Spring 2021</td>
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<td>Genetic Screen using RNA</td>
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<td>2300</td>
<td>Government of Ohio</td>
<td>PLS</td>
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</table>
Spring 2021  ME3750  3750  Thermo of Materials  ME  Mechanical and Materials Engr  3  Application of classical thermodynamics to engineering materials. Heats of formation and reaction; behavior of solutions; free energy concepts; thermodynamic fundamentals of phase equilibria.<b> Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of C</b>  UG  LE  Lecture

Spring 2021  EES4510  4510  Scientific Communication  EES  Earth & Environmental Sciences  3  Fundamentals of effective scientific communication in written and conference presentation formats. Basics of good scientific prose, manuscript and figure preparation and submission, poster and platform presentations, job interviews, research proposals, and communication with non-scientists. Integrated Writing course.  UG  LE  Lecture

Spring 2021  MTH1440  1440  Math Modern World w/ Alg  MTH  Mathematics  4  An application of mathematics to modeling real world problems from the behavioral, computational, managerial, and social sciences. Includes such topics as graph theory, linear programming, probability, descriptive and inferential statistics, game theory, population growth, computer algorithms, and codes and data storage. Incorporates selected topics in algebra for underprepared students.  UG  LE  Lecture

Spring 2021  EES4270  4270  Process Geomorphology  EES  Earth & Environmental Sciences  3  Study of the processes that create and modify landforms. Classifications of landforms and what they reveal of past geologic processes and climates. Integrated Writing course. <b> Department Managed Prerequisite(s): Undergraduate level EES 1050 Minimum Grade of D or Undergraduate level EES 2510 Minimum Grade of D or Undergraduate level EES 2550 Minimum Grade of D</b>  UG  LE  Lecture

Spring 2021  HST6220  6220  Russian/Soviet History  HST  History  3  Examines particular periods of Russian and Soviet history (e.g., the Soviet Union under Stalin) or topics (e.g., the Russian Revolution). Topics vary.  GR  LE  Lecture

Spring 2021  EE4920  4920  Elec Ege Senior Des II  EE  Electrical Engineering  3  A project-oriented design course integrating design methodology with the principles of major electrical engineering disciplines: project planning and management, design specifications, implementation, testing and evaluations, electronic documentation, written and oral reports. Integrated Writing course.  UG  LE  Lecture

Spring 2021  MUS2620  2620  German Diction  MUS  Music  2  For students of singing. Application of the International Phonetic Alphabet to German. Includes intensive readings of song lyrics.  UG  LE  Lecture

Spring 2021  FIN4770  4770  Independent Study in Fin  FIN  Finance  1  Independent study in selected areas of finance or financial services.  UG  IS  Independent Study

Spring 2021  PLS4090  4090  Legal Judging  PLS  Political Science  3  Examines how the Supreme Court should interpret the Constitution and how this idea has developed over time. Looks at the history of the Supreme Court and also the theoretical and empirical perspectives on legal judging. Integrated Writing course.  UG  LE  Lecture

Spring 2021  LA6000  6000  CELIA Internship  LA  Liberal Arts  1  Internship with a local arts organization under the auspices of CELIA, Wright State's Ohio Center of Excellence in Collaborative Education, Leadership and Innovation in the Arts.  GR  IN  Internship

Spring 2021  ENG4850  4850  Sp Topics Creative Wrtg  ENG  English  3  Specialized courses in genres, modes, styles, practices, creative processes, and the craft of fiction, creative non-fiction, poetry, or playwriting. Integrated Writing course.  UG  LE  Lecture

Spring 2021  BMB7530  7530  Molecular Signalling  BMB  Biochem & Molecular Biology  3  Also listed as BMS 7530. A molecular analysis of information transfer into and within cells.  GR  LE  Lecture

Spring 2021  EE7010  7010  Linear Systems  EE  Electrical Engineering  3  Graduate level linear engineering methods in finite and infinite dimensions.  GR  LE  Lecture

Spring 2021  ENG5570  5570  Reading Workshop  ENG  English  3  Advanced strategies for teaching reading to middle school and adolescent students with an emphasis on literary response and workshop pedagogy.  GR  LE  Lecture

Spring 2021  ME4121L  4121L  Industrial Controls Lab  ME  Mechanical and Materials Engr  1  Hands-on experience in Industrial Controls, Automated Controls systems, plant modeling and control system performance.<b> Department Managed Prerequisite(s): Undergraduate level CEG 2170 Minimum Grade of D and Undergraduate level EE 3210 Minimum Grade of D or (Undergraduate level ME 1020 Minimum Grade of D and Undergraduate level ME 3210 Minimum Grade of D)</b>  UG  LB  Lab

Spring 2021  PSY6510  6510  Cross-Cul Psy Cap  PSY  Psychology  3  Communication-intensive seminar integrating knowledge on Cross-Cultural Psychology. Explores national differences in perception, cognition, and self-concept as well as in personality dynamics and interpersonal interactions, and addresses the challenges of globalization.  GR  SE  Seminar

Spring 2021  EC5210  5210  Grad Surv Prin of Micro  EC  Economics  1.5  Economics of the individual firm in competitive and monopolistic markets. How prices ration goods and services and the principles on which the total product is divided among the owners of the factors of production.  GR  LE  Lecture
<table>
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<td>4900</td>
<td>Independent Study CTE</td>
<td>Independent study for CTE candidates. Topics vary.</td>
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<td>EDL9710</td>
<td>9710</td>
<td>School Dist Leadership</td>
<td>Superintendent, staff, school board, unions, and community strategic roles, limits, and responsibilities in light of local, state, and federal regulations and political pressures.</td>
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<td>MUA3410</td>
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<td>Applied Music</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
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<td>ART4490</td>
<td>4490</td>
<td>Senior Painting Thesis</td>
<td>Production of cohesive, substantial body of work representing an investigation of a specific visual idea or problem. Culmination of undergraduate study in painting and foundation of an individual direction beyond the BFA experience.</td>
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<td>IS</td>
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<td>MUE2680</td>
<td>2680</td>
<td>Jazz Band</td>
<td>A jazz performance-oriented group. Students learn elements of ensemble execution, professionalism, jazz history, jazz styles, and jazz improvisation. Audition required.</td>
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<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>ED4100</td>
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<td>Ed Honors Project II</td>
<td>An in-depth independent study, under the guidance of a TED faculty advisor, in which students pursuing Education Departmental Honors present their completed Honors projects.</td>
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<td>IS</td>
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<td>RHB3631</td>
<td>3631</td>
<td>Behavioral Analysis II</td>
<td>Development of applied behavioral analysis plans and assessing intervention strategies.</td>
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<td>Lecture</td>
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<td>PLS6490</td>
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<td>Intl Pol Gender Violence</td>
<td>Cross cultural examination of gender violence. Considers the range of violence, its sources, and solutions. Topics include domestic abuse, rape, female genital surgeries, prostitution, and reproductive rights.</td>
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<td>LE</td>
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<td>Child Welfare II</td>
<td>Addresses the developmental and permanence needs of children in the child welfare system.</td>
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<td>Lecture</td>
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<td>DAN4220</td>
<td>4220</td>
<td>Jazz/Theatre Dance IV</td>
<td>Diversified styles and techniques of advanced jazz/musical theatre dancing. Emphasis on the continued development of advanced rhythms, syncopation, coordination, musicality, and variation of style.</td>
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<td>ST</td>
<td>Studio</td>
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<td>PSY6130</td>
<td>6130</td>
<td>Psy in Film Cap</td>
<td>Communication-intensive seminar integrating knowledge examining psychology in film.</td>
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<td>ATH4310</td>
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<td>Bioarchaeology Seminar</td>
<td>Explores human skeletal markers of interpersonal violence, occupation, social status, diet, &amp; physiological stress. Reviews material in archaeological and evolutionary contexts throughout prehistory. Prior completion of ATH 2100 and one upper level Bio-archaeology course is strongly encouraged. Integrated Writing course.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<td>MUS7710</td>
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<td>Pedagogical Research Music Ed</td>
<td>Pedagogical Research in Music Education is designed to offer graduate students pursuing the Masters in Music Education degree a course that will allow them to choose pedagogical research which supports their career directions in music education.</td>
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<td>Seminar</td>
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<td>EGR7040</td>
<td>7040</td>
<td>Design Optimization</td>
<td>Concepts of minimax and maxima; linear, dynamic, integer and nonlinear programming; variational methods. Interdisciplinary engineering applications are emphasized.</td>
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<td>Art and Archaeology</td>
<td>Greece in the Bronze Age; classical Greece and Rome; and selected areas of Greek and Roman art and archaeology. Integrated Writing course.</td>
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<td>EE4190</td>
<td>4190</td>
<td>Intelligent Control Sys</td>
<td>Foundations of fuzzy set theory, system modeling using fuzzy rules, structure of fuzzy controllers and PID fuzzy controller design. Neural network foundations, single layered/multi-layered perceptions, learning rules, basics of adaptive controls and adaptive neural control.</td>
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<td>LE</td>
<td>Lecture</td>
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<td>Beginning Greek II</td>
<td>Essentials of the Greek language.</td>
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<td>6480</td>
<td>Calculus Mid Scht Tchr</td>
<td>An exploration meant to give a solid conceptual understanding of the big ideas in calculus (limit, derivative, integral). Applications, connections to algebra, and how these concepts appear in middle school math classrooms are emphasized.</td>
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<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>KNH1480A</td>
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<td>Rappelling</td>
<td>Fundamental skills and knowledge of Rappelling. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>LB</td>
<td>Lab</td>
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<td>Supervising Instr &amp; Prac</td>
<td>The course content focuses on supervising and assessing curriculum, instruction, and personnel.</td>
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<td>LE</td>
<td>Lecture</td>
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<td>Acting Mus Theatre II</td>
<td>Musical theatre acting skills using texts from the nineteenth and early to mid-twentieth centuries. Emphasis on mastering a range of performance styles.</td>
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<td>ST</td>
<td>Studio</td>
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<td>Mechanical and Materials Engr</td>
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<td>EED</td>
<td>Elementary Education P-5</td>
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<td>EES6640</td>
<td>6640</td>
<td>Risk Assessment &amp; Comm</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7530</td>
<td>7530</td>
<td>VLSI Des Synth Opt</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE4210</td>
<td>4210</td>
<td>ECE Intern Pt I: Methods</td>
<td>ECE</td>
<td>Education - Early Childhood</td>
<td>1</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG5320</td>
<td>5320</td>
<td>Digital System Design</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
<td>Department</td>
<td>Grade</td>
<td>Notes</td>
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<tr>
<td>PN6100</td>
<td>4</td>
<td>Human Physiology</td>
<td>PN</td>
<td></td>
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</tr>
<tr>
<td>FAS2050</td>
<td>3</td>
<td>Intro to Horticulture</td>
<td>FAS</td>
<td></td>
<td>Designing, maintaining, and cultivating vegetable gardens. Topics include soil amendments, nutrients, integrated pest management, plant selection, garden layout, harvesting and produce care.</td>
<td></td>
</tr>
<tr>
<td>PSY6900</td>
<td>3</td>
<td>Behavioral Neuro</td>
<td>PSY</td>
<td></td>
<td>Communication-intensive seminar integrating knowledge within behavioral neuroscience.</td>
<td></td>
</tr>
<tr>
<td>KNH1800</td>
<td>1</td>
<td>Weight Training:</td>
<td>KNH</td>
<td></td>
<td>Fundamental skills and knowledge of Weight Training: Women. Competency-based approach.</td>
<td></td>
</tr>
<tr>
<td>ED7901</td>
<td>1</td>
<td>Co-Teaching Practices</td>
<td>ED</td>
<td></td>
<td>Centers on the effective implementation of the co-teaching model. Practicing classroom teachers will gain a comprehensive understanding of underlying components of the co-teaching model and their practical application in PK-12 classrooms.</td>
<td></td>
</tr>
<tr>
<td>EDS4400</td>
<td>3</td>
<td>Collab Differentiation</td>
<td>EDS</td>
<td></td>
<td>Co-teaching models with emphasis on differentiation, integration of academic instruction/behavior management; collaborative consultation and communication strategies to enhance instruction for those with exceptional learning needs. Field experiences required. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>CNL7290</td>
<td>3</td>
<td>Multicultural Counseling</td>
<td>CNL</td>
<td></td>
<td>Studies social change, cultures, issues related to immigration, gender, sexual orientation, socioeconomic status, religious affiliation, and unique characteristics of individuals, couples, families, ethic groups, and communities. This course does require some experiential exercises.</td>
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</tr>
<tr>
<td>EDS6730</td>
<td>8</td>
<td>Std Tchg: IS M/M</td>
<td>EDS</td>
<td></td>
<td>Candidates, under the direct supervision of an experienced intervention specialist, are assigned to a school for intensive teaching experience in grades K-12 special education for students with mild/moderate needs.</td>
<td></td>
</tr>
<tr>
<td>GEO2210</td>
<td>3</td>
<td>NW Human Environments</td>
<td>GEO</td>
<td></td>
<td>Human development and the impact of globalization on patterns of land use, population, economic activity, culture, settlements, and political systems in Asia, Africa, Latin America and the Middle East. Credit will not be given for GEO 2210 Nonwestern Human Environments to students who have already successfully completed CST 2210 Comparative Nonwestern Environments. Integrated Writing course.</td>
<td></td>
</tr>
<tr>
<td>EDS6500</td>
<td>0.5</td>
<td>Spec Studies in Spec Ed</td>
<td>EDS</td>
<td></td>
<td>Independent Study in a selected area of special education</td>
<td></td>
</tr>
<tr>
<td>TH1200</td>
<td>1</td>
<td>Make-up for the Theatre</td>
<td>TH</td>
<td></td>
<td>Theory and practice of stage make-up.</td>
<td></td>
</tr>
<tr>
<td>PSY5510</td>
<td>3</td>
<td>Social Psychology</td>
<td>PSY</td>
<td></td>
<td>Current theories and experimental findings examining the situational and social causes underlying people's attitudes, beliefs, and behaviors.</td>
<td></td>
</tr>
<tr>
<td>CHI3120</td>
<td>3</td>
<td>Adv Chinese Conversation</td>
<td>CHI</td>
<td></td>
<td>Continuation of Chinese 3110 pursuing a balance of the four basic language skills: reading, writing, listening, and speaking in Chinese with a focus on conversation. Department Managed Prerequisite(s): Undergraduate level CHI 3110 Minimum Grade of D≥&lt;b&gt;/b&gt;</td>
<td></td>
</tr>
<tr>
<td>ME6770</td>
<td>3</td>
<td>Mech Behavior of Metals</td>
<td>ME</td>
<td></td>
<td>Crystal plasticity and single crystal behavior. Introduction to dislocation theory. Strengthening mechanisms in metals. Fracture, fatigue, and creep behavior of metals. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and (Undergraduate level ME 3120 Minimum Grade of D or Graduate level ME 5120 Minimum Grade of D≥&lt;b&gt;/b&gt;</td>
<td></td>
</tr>
<tr>
<td>PSY2020</td>
<td>1</td>
<td>Careers in Psychology</td>
<td>PSY</td>
<td></td>
<td>Topics relating to careers and occupations in psychology.</td>
<td></td>
</tr>
<tr>
<td>ME4860</td>
<td>3</td>
<td>Metal Forming</td>
<td>ME</td>
<td></td>
<td>Fundamentals of principal deformation processing systems including forging, extrusion, rolling, and sheet forming; material response and formability; and mechanics and analysis of selected processes. Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and (Undergraduate level ME 3120 Minimum Grade of D or Graduate level ME 5120 Minimum Grade of D≥&lt;b&gt;/b&gt;</td>
<td></td>
</tr>
<tr>
<td>ISE4300</td>
<td>3</td>
<td>Fund of Human Fact Egr</td>
<td>ISE</td>
<td></td>
<td>Broad overview of the interdisciplinary area of human factors engineering. Students will be exposed to the analysis and design of systems and the tools used by humans in order to improve performance. Topics include task analysis, human perception and performance, interface design, and human-machine interaction.</td>
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<tr>
<td>Course Code</td>
<td>Term</td>
<td>Type</td>
<td>Title</td>
<td>Department</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>ED6070</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Reading and Literacy II</td>
<td>ED</td>
<td>Education</td>
<td>3</td>
</tr>
<tr>
<td>ENG5530</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Young Adult Literature</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>PLS6560</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Politics of Europe</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
</tr>
<tr>
<td>PSY4720</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Select Visual Art Abi Cap</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ENG6650</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Professional Editing</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>KNI1360A</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Karate</td>
<td>KNI</td>
<td>Kinesiology &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>BIO2310L</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Evolution &amp; Ecology Lab</td>
<td>BIO</td>
<td>Biology</td>
<td>0</td>
</tr>
<tr>
<td>MKT4800</td>
<td>Spring 2021</td>
<td>Lab</td>
<td>Internship in Marketing</td>
<td>MKT</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>EDT8240</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Digital Teach.Lit. Review</td>
<td>EDT</td>
<td>Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>BIO6060</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Population Genetics</td>
<td>BIO</td>
<td>Biology</td>
<td>4</td>
</tr>
<tr>
<td>SM1010</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Scientific Literacy</td>
<td>SM</td>
<td>Science and Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>GER5250</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Business German I</td>
<td>GER</td>
<td>German</td>
<td>3</td>
</tr>
<tr>
<td>EES6190</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Paleobiology</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NUR7802</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Primo Care Adults</td>
<td>NUR</td>
<td>Nursing</td>
<td>5</td>
</tr>
<tr>
<td>TH3320</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Automated Lighting</td>
<td>TH</td>
<td>Theatre</td>
<td>3</td>
</tr>
<tr>
<td>CEG7560</td>
<td>Spring 2021</td>
<td>Lecture/Lab</td>
<td>Visual &amp; Image Process</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENG5030</td>
<td>Spring 2021</td>
<td>Practicum</td>
<td>TA Practicum II</td>
<td>ENG</td>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>PSY3100</td>
<td>Spring 2021</td>
<td>Lecture</td>
<td>Clinical Psy Career Prep</td>
<td>PSY</td>
<td>Psychology</td>
<td>1</td>
</tr>
<tr>
<td>PL54620</td>
<td>Spring 2021</td>
<td>Seminar</td>
<td>US-India-Pak-Afghan Rel</td>
<td>PL5</td>
<td>Political Science</td>
<td>3</td>
</tr>
<tr>
<td>EE55310L</td>
<td>Spring 2021</td>
<td>Lab</td>
<td>Devices and Circuits Lab</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Type</td>
<td>Credits</td>
<td>Description</td>
<td>Pre-Requisites</td>
<td>Grade</td>
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<tr>
<td>Spring 2021</td>
<td>BIO2140R Intro Cell Bio Recitation</td>
<td>BIO</td>
<td>0</td>
<td>Required recitation for BIO 2140.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTH4320 Real Variables II</td>
<td>MTH</td>
<td>3</td>
<td>Infinite series, sequences and series of functions, power series, Taylor series, uniform convergence, topology of R^n, real-valued and vector-valued functions of several variables, derivatives and integrals of functions of several variables.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6324L Dig Integ Ckt Design Lab</td>
<td>CEG</td>
<td>1</td>
<td>Realizations, testing and evaluation of digital integrated circuits with particular emphasis on programmable logic devices.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8640 Res Methods I/O Phy</td>
<td>PSY</td>
<td>4</td>
<td>The course focuses on the unique methodological challenges faced by I/O researchers. Theory, causation, and experimental validity are reviewed. Various research designs (e.g., experiments, quasi-experiments, correlation and regression analysis, ethnographic study) are discussed. Methods of data collection (e.g., unobtrusive measurement, survey, qualitative) are reviewed. Methods of data analysis (e.g., structural equation modeling, multilevel modeling, meta-analysis) are reviewed.</td>
<td>Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D and (Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D)</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL9520 Diagnosis Clin Cnl Prac</td>
<td>CNL</td>
<td>3</td>
<td>Clinical course designed to introduce the student to comprehensive diagnostic evaluation. Students will gain familiarity with the DSM nomenclatures via assigned readings, case studies and assignments.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG6260 Matrix Computations</td>
<td>CEG</td>
<td>3</td>
<td>Numerical linear algebra survey using high-level computing tools. Topics include linear equations, matrix factorizations, eigenvalue problems, least squares, applications of singular value decompositions, and iterative methods for large sparse matrices. Emphasizes conditioning of problems and accuracy and stability of algorithms.</td>
<td>Department Managed Prerequisite(s): Undergraduate level CEG 2170 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1480B Rappelling</td>
<td>KNH</td>
<td>1</td>
<td>Fundamental skills and knowledge of Rappelling. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4010 Topics in Med Lab Sci</td>
<td>MLB</td>
<td>0.5</td>
<td>Advanced topics in medical laboratory science of current interest. Topics vary.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6200 Studies in British Lit</td>
<td>ENG</td>
<td>3</td>
<td>Intensive study of British literary history and/or the work of individual British writers. Intended to develop an understanding of literature within the contexts of the authors life, literary production, and historical background.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC4250 Development of Ec Thought</td>
<td>EC</td>
<td>3</td>
<td>Historical development of economic thought and philosophies.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY6990 Spec. Top. Phy Teachers</td>
<td>PHY</td>
<td>1</td>
<td>Physical science topics for teachers. Topics vary by year. Applicable to grades 3-12 teachers or to the MST capstone experience according to section.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7150 Digital Image Processing</td>
<td>EE</td>
<td>3</td>
<td>Image representation, sampling/quantization, spatial/frequency concepts, image enhancement, color image theory, transform image transforms, image data compression, image models, image coding, image restoration, feature extraction and description, and computer implementation of concepts and algorithms introduced.</td>
<td></td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED3250 Urban Youth</td>
<td>ED</td>
<td>3</td>
<td>Diverse experiences of urban youth and effect of urban experiences on students, teachers, schools, and communities. Methods for providing resource access for all.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ARA5110 Arabic Conversation I</td>
<td>ARA</td>
<td>3</td>
<td>A language practicum for intermediate students of Arabic, designed to expand conversational skills in Modern Standard Arabic.</td>
<td>Department Managed Prerequisite(s): Undergraduate level ARA 2020 Minimum Grade of D</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HED3850 Foundation Teach Health</td>
<td>HED</td>
<td>3</td>
<td>Prepares the pre-service teacher for the classroom by presenting concepts and skills of health education. Explore Coordinated School Health Programs, the national Health Education Standards, the Centers for Disease Control's Risk Behaviors for Teens, health literacy, and basics of lesson planning and unit planning. Students will examine a plethora of health education resources.</td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GEO3200 Comm/Regional Planning I</td>
<td>GEO</td>
<td>3</td>
<td>Development of city planning as a professional discipline that has significantly shaped urban spaces. Planning practices and theories related to spatial patterns and design, including location theory and democratic processes.</td>
<td></td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>EES4380 Seismic Interpretation</td>
<td>EES</td>
<td>4</td>
<td>Principles of seismic reflection data interpretation, as well as pitfalls, are examined in the context of both structural styles and stratigraphic settings. The student will use industry-standard software packages.</td>
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<td>UG</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>PSY4950</td>
<td>4.5</td>
<td>Sex &amp; Endocrinology Cap</td>
<td>Communication-intensive seminar integrating knowledge on sexuality and endocrinology. Students will apply knowledge of hormonal influences to human sexual behavior through reading and critically analyzing primary scientific research and thoughtful reflection and collegial discussion. Integrated Writing course.</td>
<td>UG SE Seminar</td>
<td></td>
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</tr>
<tr>
<td>MUA3110</td>
<td>3.0</td>
<td>Applied Music</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td>UG IS Independent Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO1050L</td>
<td>3.0</td>
<td>Biology of Food Lab</td>
<td>Required laboratory for BIO 1050.</td>
<td>UG LB Lab</td>
<td></td>
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</tr>
<tr>
<td>MUS6200</td>
<td>3.0</td>
<td>Opera Prod and Coaching</td>
<td>Production of opera; public performance and individual coaching. For advanced singers. At the discretion of the instructor course requirements may include participation in Dayton Opera productions.</td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>LEP0140</td>
<td>3.0</td>
<td>Integrated Skills Level 1</td>
<td>Reading, vocabulary, listening, cross-cultural discussions for beginning ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>GEO4840</td>
<td>4.5</td>
<td>Biogeography</td>
<td>Introduction to the factors affecting the distribution of plants and animals.</td>
<td>UG LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>BMS7135</td>
<td>3.0</td>
<td>Photon Emission Imaging</td>
<td>Principles of imaging procedures based on radioactive isotopes. Topics include radioactive isotopes, gamma camera physics, single-photon-emission tomography, and positron-emission tomography. Each topic covers instrumentation, image production, and major applications.</td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>EE4560</td>
<td>3.0</td>
<td>Intro Robotics</td>
<td>Introduces the mathematics of robots with emphasis on coordinate systems and transformations, manipulator kinematics and inverse kinematics, Jacobian, trajectory planning, dynamics and control.</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG7130</td>
<td>3.0</td>
<td>Discourse Analysis</td>
<td>Introduction to the linguistic study of spoken and written language beyond the sentence level.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>ME7550</td>
<td>3.0</td>
<td>Photovoltaics</td>
<td>Basic principles of solar cells will be covered including semiconductors, electronics and holes, and p-n junctions. Different types of solar cell materials including crystalline and amorphous cells as well as techniques for increasing their efficiency will be presented.</td>
<td>GR LE Lecture</td>
<td></td>
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</tr>
<tr>
<td>KNH6880</td>
<td>3.0</td>
<td>Independent Study</td>
<td>Independent reading, writing, and/or reporting in an area related to health, physical education, or recreation. Titles vary.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>ME4740</td>
<td>3.0</td>
<td>Mat Sel Failure Analysis</td>
<td>Engineered components are manufactured with materials designed for a specified life, but may fail in service. Using analytical methods and computer software, procedures for selecting the optimum materials and manufacturing processes under multiple constraints are discussed. Analysis to establish the root cause of failures is addressed through lectures and case studies that relate factors such as design, material, manufacture, and service conditions.</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS6540</td>
<td>3.0</td>
<td>Politics of Mid East</td>
<td>Introduction to governments and politics of the Middle East with special attention to cultural and historical background and the Arab-Israeli conflict.</td>
<td>GR LE Lecture</td>
<td></td>
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<tr>
<td>MIT7110</td>
<td>3.0</td>
<td>Virology</td>
<td>This course provides an introduction to the field of virology. The course emphasizes the intrinsic properties of viruses that cause human disease and their interaction with cells, multiplication, genetics, and tumor induction.</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ME2700R</td>
<td>3.0</td>
<td>Struc&amp;Prop of Mat I Rec</td>
<td>Required recitation for ME 2700.</td>
<td>GR RE Recitation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM2020</td>
<td>3.0</td>
<td>Interpersonal Com</td>
<td>Theoretical and behavioral approach to the role of communication in relationships across various contexts. Emphasis on perception and self-concept, relational development, verbal and nonverbal messages, influence, gender and diversity. Undergraduate level COM 1040 Minimum Grade of C and Undergraduate level ENG 1100 Minimum Grade of C.</td>
<td>GR LL Lecture/Lab Combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC3520</td>
<td>3.0</td>
<td>Social Psychology</td>
<td>Scientific approach to exploring human expression through the application of contemporary and historic research.</td>
<td>UG LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART5160</td>
<td>3.0</td>
<td>Studies 20th Century Art</td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time.</td>
<td>GR LE Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES3320</td>
<td>3.0</td>
<td>ICL Lab</td>
<td>Application of leadership management concepts learned in Field Training and in previous aerospace studies courses and labs to assist in training the GMC cadets. Requires participation in two weekly physical training sessions.</td>
<td>UG LB Lab</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Spring 2021 | ME7200 | 7200 | Mechanics of Composites | ME | Mechanical and Materials Engr | 3 | The main objective of this course is to introduce composites as an engineering material and emphasize the basic concepts of their nature and mechanical properties. Micromechanics and macromechanics and lamination theory of composites will be emphasized. DEPARTMENT MANAGED PREREQUISITE(S): Undergraduate level ME 1020 Minimum Grade of D and Undergraduate level ME 5120 Minimum Grade of D
|            |        |      |                          |    |                           |    | |
| Spring 2021 | ISE4940 | 4940 | Indst.Sys Eng Intrn II   | ISE | Industrial & Systems Engr | 1 | Industrial and systems engineering internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 3rd year courses as listed in the program guide. Minimum of 10 hours per week for each credit hour registered. A minimum total of 450 hours of work is required for 3 credits of technical elective credit.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | BME4610 | 4610 | Clinical Engr Dev World | BME | Biomedical Engineering | 3 | Students will be exposed to the culture of a developing country; learn how to live and interact with the local people; gain an appreciation for a culture different from their own and of the limited technical resources of educational and healthcare facilities in a developing country; learn how to install and repair medical and other technical equipment with simple tools. DEPARTMENT MANAGED PREREQUISITE(S): Undergraduate level PHY 2410 Minimum Grade of D
|            |        |      |                          |    |                           |    | |
| Spring 2021 | ABS7790 | 7790 | Practicum in ABS         | ABS | Applied Behavioral Science | 1 | On-site participation of students in selected behavioral science projects. Jointly supervised by faculty and on-site personnel.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | CNL6030 | 6030 | Stats Res for Counseling | CNL | Counseling               | 3 | Surveys counseling and rehabilitation research, evidence-based practice, program evaluation, needs assessment, descriptive, inferential, qualitative, quantitative, and single-case designs statistical analysis, and ethical and culturally relevant strategies for interpreting and reporting human services research.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | SPN5220 | 5220 | Adv SPN Conv and Writing | SPN | Spanish                   | 3 | Conversational and writing techniques and grammar review; literary and/or film and/or media analysis incorporating targeted grammar, vocabulary, and stylistic devices. Taught in Spanish.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | MUS7740 | 7740 | Music Theory for the Music Edu | MUS | Music                   | 3 | Theory for the Music Educator will focus on practical applications of the information provided by analysis designed to enhance teaching and rehearsing. In addition, the course will address AP theory curriculum, student composition, and other ways in which music theory is and can be used in education.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | ATH3800 | 3800 | Special Topics/Methods   | ATH | Anthropology              | 1 | Selected topics concerning the training of undergraduate majors in current methodologies used in cultural, biological or archaeological anthropology. Topics vary.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | IT2500  | 2500 | Promotional Design       | IT  | Information Technology   | 3 | Designing, writing, and using creative ideas in developing advertisements with consideration of cultural diversity.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | BIO4990 | 4990 | Special Problems Biology | BIO | Biology                 | 1 | Independent laboratory study course.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | EE7560L | 7560L| Advanced Robotics Lab    | EE  | Electrical Engineering   | 1 | Required laboratory for EE 7560. DEPARTMENT MANAGED PREREQUISITE(S): (Graduate level EE 6560 Minimum Grade of D and Graduate level EE 6560L Minimum Grade of D) or (Undergraduate level EE 4560 Minimum Grade of D and Undergraduate level EE 4560L Minimum Grade of D)
|            |        |      |                          |    |                           |    | |
| Spring 2021 | PSI9530 | 9530 | Health Psychology        | PSI | Professional Psychology | 3 | Techniques of therapy applied to populations whose problems arise from unhealthy lifestyles and not from serious psychopathology. Topics include stress management, weight control, and health maintenance.
|            |        |      |                          |    |                           |    | |
| Spring 2021 | CEG3400 | 3400 | Intro to Cyber Security  | CEG | Computer Engineering     | 3 | Focuses on educating students with essential security knowledge in modern cyber space. Covers security issues across all layers of cyber space, including data, host, infrastructure, human, and economics. DEPARTMENT MANAGED PREREQUISITE(S): Undergraduate Level CEG 2350 Minimum Grade of D
|            |        |      |                          |    |                           |    | |
| Spring 2021 | GER3810 | 3810 | Applied Elem Ger Instruc | GER | German                  | 1 | German majors and minors assist GER 1010 or GER 1020 course instructors in conducting classes. Taught in German.
DEPARTMENT MANAGED PREREQUISITE(S): Undergraduate level GER 3110 Minimum Grade of B and (Undergraduate level GER 3210 Minimum Grade of B or Undergraduate level GER 3230 Minimum Grade of B) and (Undergraduate level GER 3120 Minimum Grade of B or Undergraduate level GER 3220 Minimum Grade of B or Undergraduate level GER 3260 Minimum Grade of B or Undergraduate level GER 3310 Minimum Grade of B or Undergraduate level GER 3320 Minimum Grade of B) or (Undergraduate level GER 3510 Minimum Grade of B or Undergraduate level GER 3610 Minimum Grade of B or Undergraduate level GER 3990 Minimum Grade of B or Undergraduate level GER 4030 Minimum Grade of B)
Spring 2021  PSI8120  8120  Objective Pers. Assess  PSI  Professional Psychology 3  Introduction to the principles and practices of objective personality assessment and report writing.  GR  LE  Lecture

Spring 2021  NUR7353  7353  Instruc Methods Nur Ed  NUR  Nursing 3  Examination and application of the art, principles, theories, models, and strategies of teaching in nursing education. Role of nurse educator in classroom and clinical is explored.  GR  LE  Lecture

Spring 2021  ED6010  6010  Adv Reading in the Conte  ED  Education 3  Reading in the content area that includes instruction in organizing instruction, use of protocols for oral language development, strategies for word skill development, reading comprehension and assessment for instructional purposes.  GR  LE  Lecture

Spring 2021  DEV0100  0100  Found Academic Writing&Readin g  DEV  Developmental Education 3  Intensive instruction in reading, writing, and critical thinking. Emphasizes reflection, revision, collaboration, and self-assessment to prepare students for collegiate success.  UG  LE  Lecture

Spring 2021  SCM3070  3070  Ops & Supply Ch Mgt  SCM  Supply Chain Management 3  Examine the major management decision areas in the design and offering of goods and services. Major topics include: operations strategy, planning and control systems, quality management, and project management.  UG  LE  Lecture

Spring 2021  EES6290  6290  Remote Sensing of Earth  EES  Earth & Environmental Sciences 3  In Remote Sensing and Digital Image Processing students learn the methods and concepts of remote sensing from an Earth Sciences perspective. Students learn to interpret various types of images including stereo air photos, airborne multi-spectral digital images and satellite images. Hands-on digital image processing is conducted using industry standard software.  GR  LB  Lab

Spring 2021  MUS4470  4470  Baroque Music  MUS  Music 3  Study of music and critical analysis of representative works from major composers of the Baroque period.  UG  LE  Lecture

Spring 2021  KNH4890  4890  Wkshp-Health, PE & Rec  KNH  Kinesiology & Health 1  Intensive study of content, curriculum, method, or materials designed to meet the needs of preservice and in-service professionals in health, physical education, and recreation. Titles vary. Integrated Writing Course.  UG  SE  Seminar

Spring 2021  SLI4950  4950  Practicum Seminar  SLI  Sign Language Interpreting 1  Seminar accompanying SLI Practicum placement courses. Discussion and review of practicum experiences, with personal and professional support.  UG  SE  Seminar

Spring 2021  HST7210  7210  Seminar Medieval History  HST  History 3  Examines the period following the decline of the Roman Empire to ca. 1450. Topics vary and may include aspects of European, Islamic, or Byzantine civilizations.  GR  SE  Seminar

Spring 2021  EE5320L  5320L  Digital System Design Lab  EE  Electrical Engineering 0  Required laboratory for CEG 5320.  GR  LB  Lab

Spring 2021  PHL3800  3800  Identity Respons Death  PHL  Philosophy 3  Study of three fundamental beliefs in ethical thinking.  UG  LE  Lecture

Spring 2021  MIL1010  1010  Ldrshp & Psnl Develop  MIL  Military Science 3  Introduction to the personal challenges and competencies that are critical for effective leadership. Relationship of life skills such as goal setting, time management, physical fitness, and stress management, to leadership, officership, and the Army profession. Contracted students are required to participate in two-hour lab, physical fitness program and weekend training exercises.  UG  LE  Lecture

Spring 2021  MUS4520  4520  Piano Literature II  MUS  Music 3  A survey of the literature of the piano and its predecessors--clavichord, harpsichord, and the pianoforte--from the early English Virginal music to the present time.  UG  LE  Lecture

Spring 2021  HST6840  6840  Religious History  HST  History 3  Examines topics in the history of religion. May cover any historical period or region of the world or may be comparative. Topics vary.  GR  LE  Lecture

Spring 2021  SPM7020  7020  Fiscal Mgt in Sport  SPM  Sports Management 1  This course explores the financial principles related to managing sports organizations. Budget development, management, and accountability are explored and current practices presented.  GR  SE  Seminar

Spring 2021  SW7650  7650  SW Field Ed Seminar II  SW  Social Work 0  Integrates Field Education II experiences and coursework. Offered concurrently with advanced generalist fieldwork and competencies.  GR  SE  Seminar

Spring 2021  KNH1460  1460  Rape Def Strat: Intermed  KNH  Kinesiology & Health 1  Intermediate level of skills and knowledge in Rape Defense Strategies: Intermediate. Competency-based approach. Course may accommodate disabled students when appropriate.  GR  LB  Lab

Spring 2021  BIO4560  4560  Ecosystem/Glob al Change  BIO  Biology 3  Covers current understanding of ecosystem function and the impacts of humans on global biogeochemical cycles and the distribution of life on earth.  UG  LE  Lecture

Spring 2021  PSY3210  3210  Cognition and Learning  PSY  Psychology 3  Theories, methodologies, and applications in the areas of attention, perception, visual imagery, memory, expert performance, decision making, and problem solving. Emphasis on how the brain performs cognitive functions.  UG  LE  Lecture

Spring 2021  ED7480  7480  Reading Recovery II  ED  Education 6  Teachers deepen their understanding of Clay's literacy processing theory through contingent instruction based on student data. Key concepts include teaching for phrased reading within fluent processing and flexible problem solving in reading and writing.  GR  LL  Lecture/Lab Combination
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Course Description</th>
<th>Offering</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>KNH1530</td>
<td>Measurement: SCUBA: Newport Aquarium</td>
<td>2</td>
<td>Fundamental skills and knowledge of SCUBA: Newport Aquarium. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED7560</td>
<td>Diag &amp; Intervn: Prac I</td>
<td>3</td>
<td>Supervised tutoring of a K-12 student identified as at-risk or struggling reader/writer. Involves individual reading/writing assessments, developing learning objectives, implementing lesson plans to meet a student’s learning goals, and making recommendations for future instruction.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL39410</td>
<td>Planning Educ Futures</td>
<td>3</td>
<td>Focuses on adaptation to social, political, and educational change in the future of education. Strategic planning, systems theory, change theory and processes are explored in connection to forecasting potential economic, enrollment, and demographic futures.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MKT7500</td>
<td>Marketing Res &amp; Analysis</td>
<td>3</td>
<td>Course is aimed at the manager who is the ultimate user of research and who is responsible for determining the scope and direction of research activities. The course will focus on both qualitative and quantitative aspects of marketing research and how managers use the results to address marketing problems.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MIL1022</td>
<td>Intro Tact Leadership Lab</td>
<td>0</td>
<td>Application of techniques introduced in Tactical Leadership course in cadet-led, cadre-supervised lab Mandatory participation in weekly two-hour leadership lab, three physical fitness classes and weekend training exercises for all contracted cadets.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MP1800</td>
<td>Motion Pictures Prod I</td>
<td>3</td>
<td>Elements of motion pictures production including scripting, cinematography, and editing. Participation in projects from initial conception to final screening.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7550</td>
<td>Peds Minor Ill/Injuries</td>
<td>6</td>
<td>Application of advanced practice nursing skills integrating theory, research findings, and differential diagnoses in the provision of primary and minor acute care for children/adolescents in families. Clinical learning will incorporate use of case management and multi-disciplinary collaboration with consideration of physical, social, and psychological factors.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY9065</td>
<td>Measurement Models</td>
<td>4</td>
<td>This course is designed to be an intensive investigation into measurement models used in psychology. The main goals of this course are to (a) expose students to classical test theory, confirmatory factor analysis, and item response theory frameworks, (b) train students to be proficient in using these frameworks to develop measures, and (c) give the students the expertise to think about appropriate statistical techniques for the demands they will face in the future.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS7730</td>
<td>Gen Music: Fund K-12 Instruct</td>
<td>3</td>
<td>Exploration and examination of fundamental music instruction standards and methodologies with practical application to various age levels of music education. Students will apply principles, techniques, and activities associated with general music to their own teaching situations, whether ensembles or classroom.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH2580</td>
<td>Singing Mus Theatre I V</td>
<td>2</td>
<td>Private singing lessons for musical theatre.</td>
<td>UG</td>
<td>ST</td>
<td>Studio</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6060</td>
<td>Earth Sys for Educators</td>
<td>3.5</td>
<td>The course investigates the processes that impact the Earth system such as volcanic eruptions, global climate change and ice ages and the resulting interactions between air, land, water and life in the Earth system.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES3450</td>
<td>Concepts EES I ECE/MCE</td>
<td>4</td>
<td>Introductory survey of geoscience. Rocks and minerals, plate tectonics, geologic time, oceanography and meteorology, planetary science. Lecture is interspersed with hands-on activities intended to reinforce concepts and to provide the students with ideas for teaching their own classes. Students will develop lesson plans on several topics.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR2100L</td>
<td>Hlth Pro &amp; Assess Adults Lab</td>
<td>0</td>
<td>Required laboratory for NUR 2100.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6020</td>
<td>Adv Exp Design:</td>
<td>4</td>
<td>Use of canned computer programs such as SPSS, SAS, and BIOMED in the design, analysis, and interpretation of behaviorally oriented research.</td>
<td>GR</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS4540</td>
<td>Politics of Middle East</td>
<td>3</td>
<td>Introduction to governments and politics of the Middle East with special attention to cultural and historical background and the Arab-Israeli conflict. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TH3340</td>
<td>Costume Construction</td>
<td>3</td>
<td>Advanced stitching techniques necessary for costume construction.</td>
<td>UG</td>
<td>ST</td>
<td>Studio</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6420L</td>
<td>Microwave EGR I Lab</td>
<td>1</td>
<td>Laboratory supporting EE 6420. Students will experience hands on learning in lab environment.</td>
<td>GR</td>
<td>LB</td>
<td>Lab</td>
</tr>
</tbody>
</table>
ME6010 6010 Comp Meth for Mech Engr ME Mechanical and Materials Engr 3 Combines material learned in statics, dynamics, thermodynamics, fluid mechanics, and heat transfer and applied them to the design of mechanical systems using numerical methods.<br/>Department Managed Prerequisite(s): Graduate level ME 5360 Minimum Grade of D and Graduate level ME 5210 Minimum Grade of D,<br/><br/>Spring 2021 EES6280 6280 EES Colloquium EES Earth & Environmental Sciences 0.5 A weekly seminar in which research scientists from within and outside the Department of Earth and Environmental Sciences present their research. Class normally meets once a week for one hour.<br/>GR SE Seminar

Spring 2021 EE2011L 2011L Analog Circuit Techniques Lab EE Electrical Engineering 1 Computer-assisted analysis, RLC circuits, operational amplifiers and circuits, Thévenin and Norton equivalents, maximum power transfer, and AC networks. Intended for BSECET majors. May not be taken for credit if students have taken EE 2010/L.<br/>UG LB Lab

Spring 2021 GER4260 4260 19th Cent German Drama GER German 3 Readings and reports in 19th-century drama. Representative works of Tieck, Kleist, Grillparzer, Hebbel, Buchner, and others.<br/>Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3220 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3260 Minimum Grade of D or Undergraduate level GER 3310 Minimum Grade of D or Undergraduate level GER 3320 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D or Undergraduate level GER 3610 Minimum Grade of D,<br/><br/>Spring 2021 CTE4350 4350 Global Engagement CTE Career and Technical Education 3 Strengthening partnerships, coordinating efforts and increasing interaction within and outside the CTE community rather than learning and working in seclusion. Enhancing students' abilities to engage in job-related problem solving and decision making in diverse cultures and environments. Integrated writing course.<br/>UG LE Lecture

Spring 2021 GER4030 4030 Adv Studies: Lang & Civ GER German 3 Advanced course on German or German-American literature, culture or film. Topics vary. Taught in German.<br/>Department Managed Prerequisite(s): Undergraduate level GER 3110 Minimum Grade of D and (Undergraduate level GER 3210 Minimum Grade of D or Undergraduate level GER 3250 Minimum Grade of D or Undergraduate level GER 3510 Minimum Grade of D),<br/><br/>Spring 2021 CNL7800 7800 Sys Tech in Marr & Fam CNL Counseling 2 This course focuses on teaching systemic interventions and problem solving in the process of resolving marriage and family related concerns.<br/>GR LE Lecture

Spring 2021 LA3990 3990 Studies Select Subjects LA Liberal Arts 1 Work experience in a liberal arts discipline. Faculty supervise and evaluate learning that requires planned and approved learning objectives, oral and/or written reports, employer evaluation, and conference with faculty supervisor. May be repeated three times.<br/>UG LL Lecture/Lab Combination

Spring 2021 PHL6110 6110 Ethics Seminar PHL Philosophy 0 An in-depth investigation of ethical problems, theories, and methods. Variable title course.<br/>GR SE Seminar

Spring 2021 WGS7200 7200 Seminar Select Subj WGS Women, Gender, and Sexuality 3 Explores problems, approaches, and topics in feminist studies, and is intended to provide intensive examination of intersecting issues of race, class, gender, and sexuality within a range of sociopolitical, cultural, and historical contexts. Titles and topics vary.<br/>GR SE Seminar

Spring 2021 SOC3730 3730 Soc Courts Law Justice SOC Sociology 3 Critical examination of the U.S. court system: its structure, key processes, and ability to attain justice. Special attention to race, class, and other influential social forces.<br/>UG LE Lecture

Spring 2021 CHM4680 4680 Experimental Nanoscience CHM Chemistry 3 Laboratory experiments include fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses and computational modeling of nanoscale physical phenomena.<br/>UG LE Lecture

Spring 2021 ESS8080 8080 Internship Option ES Environmental Sciences 5 The internship option is available to second year PhD students wishing to gain experience with an environmental professional in an approved interdisciplinary job setting and providing opportunity to formulate a dissertation research topic.<br/>GR IN Internship

Spring 2021 CS1160 1160 Intro to Comp Program CS Computer Science 4 Basic concepts of programming using the Python programming language.<br/>Department Managed Prerequisite(s): WSU Math Placement Level 30 or Undergraduate level MTH 1280 Minimum grade of D or Undergraduate level MTH 1450 Minimum grade of D or Undergraduate level MTH 2410 Minimum grade of D or Undergraduate level STT 1600 Minimum grade of D or Undergraduate level STT 2640 Minimum grade of D,<br/>UG LL Lecture/Lab Combination
<table>
<thead>
<tr>
<th>Offered By</th>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME</td>
<td>ME4900</td>
<td>3</td>
<td>Capstone Design in ME I</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td></td>
<td></td>
<td>First of a two-course sequence affording students an experience in the methodology of solving realistic engineering design problems. Both courses require research of professional literature, application of systems engineering principles, and reporting of technical results. The student becomes acquainted with the demands of initiative, knowledge, intuition, and resourcefulness required for the successful solution of interdisciplinary open ended engineering problems. Integrated Writing course.</td>
</tr>
<tr>
<td>ME</td>
<td>ME6120L</td>
<td>6</td>
<td>Finite Element Analysis Lab</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td></td>
<td>3</td>
<td>Required laboratory for ME 6120.</td>
</tr>
<tr>
<td>ME</td>
<td>ME6680</td>
<td>3</td>
<td>Experimental Nanoscience</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td></td>
<td></td>
<td>This course will provide a series of laboratory experiments similar to the state-of-the-art R&amp;D in nanotechnology and nanoscience. The experiments include 1) fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; 2) characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses etc; and 3) computational modeling of nanoscale physical phenomena. Department Managed Prerequisite(s): Undergraduate level CHM 1210 Minimum Grade of D and Undergraduate level PHY 2400L Minimum Grade of D.</td>
</tr>
<tr>
<td>KNH</td>
<td>KNH1990</td>
<td>2</td>
<td>BIPE Student Assistant</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td></td>
<td></td>
<td>Advanced level of skills and knowledge in one particular activity. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>CS</td>
<td>CS6800</td>
<td>3</td>
<td>Web Information Systems</td>
<td>CS</td>
<td>Computer Science</td>
<td></td>
<td></td>
<td>Covers topics in building Web-based applications involving variety of data; covers data, metadata, knowledge and ontologies; key Web languages and protocols; search engines, social networking, Web2.0, semantic web. Good programming skills are prerequisite. Department Managed Prerequisite(s): Undergraduate level CS 3100 Minimum Grade of D or Graduate level CS 5100 Minimum Grade of D and Undergraduate level CS 3800 Minimum Grade of D.</td>
</tr>
<tr>
<td>GEO</td>
<td>GEO4000</td>
<td>3</td>
<td>Climate Meteorology</td>
<td>GEO</td>
<td>Geography</td>
<td></td>
<td></td>
<td>Clouds, humidity, precipitation, winds, fronts, forecasting, and climate examination. Emphasis on complex processes creating severe weather and climate change.</td>
</tr>
<tr>
<td>WGS</td>
<td>WGS4700</td>
<td>3</td>
<td>Feminist Research Method</td>
<td>WGS</td>
<td>Women, Gender, and Sexuality</td>
<td></td>
<td></td>
<td>Examines feminist methodologies and methods of research with emphasis on qualitative inquiry and/or mixed methods. Students with credit for WMS 4790 cannot receive credit for WGS 4700.</td>
</tr>
<tr>
<td>PSY</td>
<td>PSY4630</td>
<td>3</td>
<td>Human Error Capstone</td>
<td>PSY</td>
<td>Psychology</td>
<td></td>
<td></td>
<td>Communication-intensive seminar integrating knowledge on human error. Integrated Writing course.</td>
</tr>
<tr>
<td>PHL</td>
<td>PHL4110</td>
<td>3</td>
<td>Ethics Seminar</td>
<td>PHL</td>
<td>Philosophy</td>
<td></td>
<td></td>
<td>Ethical problems, theories, and methods. Topics vary. Integrated Writing course.</td>
</tr>
<tr>
<td>EDS</td>
<td>EDS6530</td>
<td>3</td>
<td>Learners w/Exception</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td></td>
<td></td>
<td>Cultural, social, emotional, and learning needs of students with exceptionalities. Teaching strategies, typical development and atypical development. Causes and effects of mild to intensive exceptionalities. Ten hours of field experience required.</td>
</tr>
<tr>
<td>LEP</td>
<td>LEP0040</td>
<td>0</td>
<td>Integrated Skills Pre-LEAP</td>
<td>LEP</td>
<td>LEAP</td>
<td></td>
<td></td>
<td>Reading, vocabulary, listening, cross-cultural discussions for low-beginning ESL students. This course has a fee that is non-refundable once the term begins.</td>
</tr>
<tr>
<td>CEG</td>
<td>CEGS5320L</td>
<td>3</td>
<td>Digital System Design Lab</td>
<td>CEG</td>
<td>Computer Engineering</td>
<td></td>
<td></td>
<td>Required laboratory for CEG 5320.</td>
</tr>
<tr>
<td>PLS</td>
<td>PLS4590</td>
<td>3</td>
<td>Contemporary Brazil</td>
<td>PLS</td>
<td>Political Science</td>
<td></td>
<td></td>
<td>Introduction to Brazilian politics, society and economy. Topics include Brazil's political and economic liberalization, its international relations, gender and race relations, and the environment. Integrated Writing course.</td>
</tr>
<tr>
<td>DEV</td>
<td>DEV0990</td>
<td>3</td>
<td>Basic Algebra Cont</td>
<td>DEV</td>
<td>Developmental Education</td>
<td></td>
<td></td>
<td>Continuation of DEV 0970 with intermediate algebra topics including: solving equations and inequalities, rational exponents, radicals, and quadratic equations. Grade of P in DEV 0970 and MPL of 23 or 24</td>
</tr>
<tr>
<td>CTE</td>
<td>CTE4800</td>
<td>3</td>
<td>Safe, Supportive Lng Env</td>
<td>CTE</td>
<td>Career and Technical Education</td>
<td></td>
<td></td>
<td>Strategies to enhance the safety and success of students and educators. Includes classroom/lab management, conflict resolution, safe work environments for minors, and development of a safety plan.</td>
</tr>
<tr>
<td>OL</td>
<td>OL4950</td>
<td>3</td>
<td>Ldship Skills Applica</td>
<td>OL</td>
<td>Organizational Leadership</td>
<td></td>
<td></td>
<td>Students will examine, in depth, four facets of leadership that resonated with them throughout the program. Through the development of a book, students will explain and apply the concepts they reviewed to real world situations. They will demonstrate a clear understanding of the four facets they selected and create a list of suggestions and takeaways for leaders to use and apply in addressing organizational challenges. Integrated Writing course.</td>
</tr>
<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Department</td>
<td>Title</td>
<td>Description</td>
<td></td>
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<tr>
<td>Spring 21</td>
<td>ED6460 6460</td>
<td>AYA Intern Pt I: Mth IS</td>
<td>Education</td>
<td>1</td>
<td>Candidates, mentored by a science educator, shall assist in planning, organizing, delivering, and assessing of instruction in a 7-12th grade setting applying pedagogical content knowledge from science content and methods courses.</td>
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<tr>
<td>Spring 21</td>
<td>URS3980 3980</td>
<td>Quantitative Research</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Introduces students to research and data collection methods and investigates what makes research useful, valid, and ethical. Credit will not be given to students who have already completed URS 4980. Integrated Writing course.</td>
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</tr>
<tr>
<td>Spring 21</td>
<td>URS4900 4900</td>
<td>Special Topics</td>
<td>Urban Affairs</td>
<td>1</td>
<td>Advanced study in selected topics in urban studies. Topics may include new developments in methodology or the various subfields of the discipline.</td>
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<tr>
<td>Spring 21</td>
<td>CSD4790 4790</td>
<td>CSD Special Topics</td>
<td>Community Services Development</td>
<td>1</td>
<td>Focused study in an area of interest in community services and development.</td>
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<tr>
<td>Spring 21</td>
<td>EDS4820 4820</td>
<td>Internship Phase II</td>
<td>Education - Special Education</td>
<td>1</td>
<td>Internship in a middle childhood school for supervised field experience in inclusive setting while focusing on professional/ethical practice in collaborative/consultative role, research-validated practice, lifetime professional development. Cohort meetings required.</td>
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<tr>
<td>Spring 21</td>
<td>BME4910 4910</td>
<td>BME Design I</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Segment one of the BME senior design sequence. Introduction to patents and engineering ethics included. Practicum results in the definition of the capstone design project to be completed in BME 4920. Integrated Writing course.</td>
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<tr>
<td>Spring 21</td>
<td>EED3200 3200</td>
<td>Soc Stud Methods P-5</td>
<td>Elementary Education P-5</td>
<td>3</td>
<td>Principles, resources, technology, critical thinking skills, and social science research for P-5 social studies, as well as the teaching of U.S. and Ohio history.</td>
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<tr>
<td>Spring 21</td>
<td>MTH7370 7370</td>
<td>Complex Analysis</td>
<td>Mathematics</td>
<td>4</td>
<td>Analytic functions, Cauchy-Riemann equations, Cauchy integral formula, Calculus of residues, Harmonic functions, Taylor series, Laurent series, Riemann Mapping Theorem. Department Managed Prerequisite(s): Undergraduate level MTH 4320 Minimum Grade of D or Graduate level MTH 6320 Minimum Grade of D.</td>
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<tr>
<td>Spring 21</td>
<td>FIN4240 4240</td>
<td>Investing in Real Estate</td>
<td>Finance</td>
<td>3</td>
<td>Explores the theory and practice of real estate investment analysis as it relates to personal financial planning objectives.</td>
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<tr>
<td>Spring 21</td>
<td>CHM6900 6900</td>
<td>Critical Lit Analysis</td>
<td>Chemistry</td>
<td>1</td>
<td>For the development of a set of critical thinking skills that will allow for a thorough analysis of current chemical and general scientific literature.</td>
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<tr>
<td>Spring 21</td>
<td>EED5030 5030</td>
<td>Circuit Analysis II</td>
<td>Electrical Engineering</td>
<td>3</td>
<td>Circuit review, alternating current concepts, computer-aided circuit analysis, two-port networks, power.</td>
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<tr>
<td>Spring 21</td>
<td>FR6420 6420</td>
<td>17th &amp; 20th Cent Theatre</td>
<td>French</td>
<td>3</td>
<td>Themes of destiny and diversity in 17th and 20th century French drama. Analysis of plays and their socio-historical context. Playwriters such as Corneille, Racine, Molière, Giraudoux, Sartre, Beckett, and Ionesco. Taught in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D.</td>
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<tr>
<td>Spring 21</td>
<td>PSI9490 9490</td>
<td>Sex &amp; Gender Ident</td>
<td>Professional Psychology</td>
<td>3</td>
<td>This course provides a sex-positive, interdisciplinary, feminist approach to diverse sexualities (orientations, identities and behaviors), and influences on sexual well-being as well as foundational concepts in serving transgender and gender diverse populations. Students will explore their values/biases and gain comfort and competence in addressing these issues in order to provide basic sex therapy interventions and transgender-affirming therapy consistent with ethical guidelines.</td>
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<tr>
<td>Spring 21</td>
<td>PHY7990 7990</td>
<td>Minor Problems</td>
<td>Physics</td>
<td>1</td>
<td>Students pursue a narrow topic on a tutorial basis or be trained in a specific laboratory or computational technique. Cannot be used for thesis credit. A maximum of 6 credits may be counted toward the MS degree.</td>
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<tr>
<td>Spring 21</td>
<td>MIS7500 7500</td>
<td>Business Process Mgmt</td>
<td>Management Information Systems</td>
<td>3</td>
<td>This course provides a comprehensive approach for transforming business processes of an organization. It will demonstrate how to keep renewed processes working at optimum levels through process ownership and performance management. This course has a fee that is non-refundable once the term begins.</td>
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<tr>
<td>Spring 21</td>
<td>ATH6210 6210</td>
<td>Biomedical Anthropology</td>
<td>Anthropology</td>
<td>3</td>
<td>Offers a graduate-level anthropological perspective on human health by integrating biological and socio-cultural dimensions of health and illness in selected societies of the contemporary world and in the past.</td>
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<tr>
<td>Spring 2021</td>
<td>IT1400</td>
<td>1400</td>
<td>Layout and Typography</td>
<td>IT</td>
<td>Information Technology</td>
<td>3</td>
<td>Fundamentals of typography as an element and tool of visual communication. Use of various software programs to produce creative and marketable typographic design. 1 hour lecture/2 hours lab.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9410</td>
<td>9410</td>
<td>Advanced Group Therapy</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>Addresses practical and clinical aspects of conducting group therapy, with an emphasis on skill building, assessment techniques from the CORE-R Battery, and multicultural applications.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC4310</td>
<td>4310</td>
<td>Public Finance</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Develops a theoretical framework and working knowledge of the economic basis for government activity, government expenditures, programs, and policies, and the financing of government expenditures through taxation.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>STT7140</td>
<td>7140</td>
<td>Environmental Statistics</td>
<td>STT</td>
<td>Statistics</td>
<td>3</td>
<td>Statistical techniques for the modeling and analysis of environmental data including advanced regression techniques, generalized linear models, and random effects. Also modeling of spatial and time-series environmental data, including spatio-temporal analysis, using appropriate software. Applications and case studies.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG6450</td>
<td>6450</td>
<td>Studies in Lit Theory</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Intensive study of literary theory in order to develop an understanding of critical questions and approaches.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY5040</td>
<td>5040</td>
<td>Industrial and Org Psy</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Scientific psychological principles, procedures, and methods applied to human behavior in organizations.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CPE3020</td>
<td>0920</td>
<td>Cooperative Education II</td>
<td>CPE</td>
<td>Cooperative Education</td>
<td>3</td>
<td>Cooperative Education II: Part-time career-related work. Through cooperative education, students enhance professional preparation, develop job-related skills, test career interests, relate course of study to practical work situations, and earn income to meet educational expenses. CPE registration records co-op experiences on the transcript. Career Services staff enroll students in the CPE course and monitor their learning.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE6900</td>
<td>6900</td>
<td>Independent Study</td>
<td>CTE</td>
<td>Career and Technical Education</td>
<td>1</td>
<td>Independent study for CTE candidates. Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4880</td>
<td>4880</td>
<td>Independent Reading</td>
<td>BIO</td>
<td>Biology</td>
<td>1</td>
<td>Study of published scientific literature leading to library research paper. Minimum GPA of 2.25</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME7130</td>
<td>7130</td>
<td>Mechanics Electronic Packaging</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Stress and strain analysis of microelectronic packages and assemblies using analytical, experimental, and numerical methods.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATR3020</td>
<td>3020</td>
<td>Strength &amp; Conditioning</td>
<td>ATR</td>
<td>Athletic Training</td>
<td>3</td>
<td>Introduction to testing and techniques to improve strength, flexibility, power, agility, speed, endurance, body composition and cardiovascular fitness levels.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM1050</td>
<td>1050</td>
<td>Chemistry; Living Things</td>
<td>CHM</td>
<td>Chemistry</td>
<td>4</td>
<td>Principles of covalent bonding, structures, and reactions of molecules important to living things, with attention to related technological, regulatory, and social issues.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GER3990</td>
<td>3990</td>
<td>Studies in Selected Subj</td>
<td>GER</td>
<td>German</td>
<td>1</td>
<td>Individual research project approved and supervised by a full-time faculty member. Taught in German.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RUS1020</td>
<td>1020</td>
<td>Beginning Russian II</td>
<td>RUS</td>
<td>Russian</td>
<td>3</td>
<td>Communicative introduction to Russian language and culture. Study of vocabulary and structure of the Russian language; practice in speaking, listening, reading, and writing. Taught in Russian.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MBA7550</td>
<td>7550</td>
<td>Competitive Strategy</td>
<td>MBA</td>
<td>MBA</td>
<td>3</td>
<td>Theory and practice of making decisions that shape the future of a firm. Content and process of the course will focus on the complexity of analytical strategic decision making from the perspective of managers who are responsible for an entire business unit and a wide range of competitive business situations.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8765</td>
<td>8765</td>
<td>Job Analysis</td>
<td>PSY</td>
<td>Psychology</td>
<td>2</td>
<td>The primary objective of this course is to provide an overview of job analysis from the perspective of the field of industrial/organizational psychology. The course will examine the theory, research, and practice perspectives of job analysis. It is designed not only to give you an overview of the topic, but to get you involved in discussion and to assist you in formulating your own ideas about research and practice in this the area. Thus, the major objective of this course is for you to develop your own perspective about defining and evaluating a position.</td>
<td>GR</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credit Type</td>
<td>Course Name</td>
<td>Department</td>
<td>Level</td>
<td>Prerequisite(s)</td>
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<tr>
<td>EE4540L</td>
<td>UG</td>
<td>Electrical Engineering</td>
<td>EE</td>
<td>1</td>
<td>Work-station-based experience designing ASIC devices for evaluation and testing.</td>
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<tr>
<td>BME2940</td>
<td>UG</td>
<td>Biomedical Engineering</td>
<td>BME</td>
<td>1</td>
<td>Biomedical engineering internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 1st year courses as listed in the program guide. Minimum of 10 hours per week is required for each credit hour registered.</td>
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<tr>
<td>CHM4210</td>
<td>GR</td>
<td>Inorganic Chemistry II</td>
<td>CHM</td>
<td>2</td>
<td>Principles and concepts of inorganic chemistry including coordination chemistry, reactions of coordination compounds and organometallic chemistry.</td>
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</tr>
<tr>
<td>URS6390</td>
<td>UG</td>
<td>Volleyball</td>
<td>URS</td>
<td>1</td>
<td>Fundamental skills and knowledge of Volleyball. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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</tr>
<tr>
<td>PPH7650</td>
<td>GR</td>
<td>Public Health Crisis and</td>
<td>PPH</td>
<td>3</td>
<td>This course provides an analysis of the players involved; coordination with governmental emergency management at the local, state, tribal and federal level; legal requirements; public health disaster awareness and preparedness; disaster mitigation and response; public health business resumption considerations and public policy considerations and community outreach.</td>
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<tr>
<td>NUR4420C</td>
<td>UG</td>
<td>Cri Care Across Lifespan Clin</td>
<td>NUR</td>
<td>0</td>
<td>Required clinical for NUR 4420.</td>
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</tr>
<tr>
<td>MIS3820</td>
<td>UG</td>
<td>Data Mining for Business</td>
<td>MIS</td>
<td>3</td>
<td>This course will examine data mining tools and techniques that have been proven to be of value in recognizing patterns and making predictions from an applied perspective.</td>
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<tr>
<td>EES4260</td>
<td>GR</td>
<td>Earth &amp; Env Sci Seminar</td>
<td>EES</td>
<td>0.5</td>
<td>Research topics in earth and environmental sciences. Occasional lectures by faculty or invited researchers. Students may give presentations prepared for professional meetings to the seminar for feedback and evaluation. Students present their work in progress.</td>
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<tr>
<td>MUE6460</td>
<td>GR</td>
<td>Univ Saxophone Quartet</td>
<td>MUE</td>
<td>1</td>
<td>Performs saxophone quartet repertoire ranging from classic to jazz to contemporary. Audition required.</td>
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<tr>
<td>URS6390</td>
<td>GR</td>
<td>Issues-Nonprofit Admin</td>
<td>URS</td>
<td>3</td>
<td>Exploration of issues and topics related to the administration of nonprofit organizations.</td>
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<tr>
<td>MIL3010</td>
<td>UG</td>
<td>Adaptive Team Leadership</td>
<td>MIL</td>
<td>3</td>
<td>Application of fundamentals of Army leadership, officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. Students must fully participate in all ROTC activities.</td>
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<tr>
<td>PHY7550</td>
<td>GR</td>
<td>Terahertz Physics</td>
<td>PHY</td>
<td>3</td>
<td>The interaction of high frequency electromagnetic radiation with materials with emphasis on the Terahertz region of the spectrum. Ability to apply these interactions to the function and design of high frequency electronic devices and/or to molecular systems.</td>
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<tr>
<td>SOC4000</td>
<td>GR</td>
<td>Sociological Imagination</td>
<td>SOC</td>
<td>3</td>
<td>Cunkling experience integrating theory, methods, and other core concepts from the discipline. Topics vary. Integrated Writing course.</td>
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<tr>
<td>PLS4650</td>
<td>GR</td>
<td>Politics of Nationalism</td>
<td>PLS</td>
<td>3</td>
<td>Examines theories and various cases of nationalist movements/conflicts from different parts of the world in order to appreciate the relevance of nationalism to contemporary politics and international relations. Integrated Writing course.</td>
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<tr>
<td>BIO2310</td>
<td>GR</td>
<td>Evolution and Ecology</td>
<td>BIO</td>
<td>4</td>
<td>Overview of the concepts of evolution and ecology. Examines the major reasons that populations of organisms change genetically over time, the basis of speciation and influences on organisms, and what determines the direction of those changes including interactions with the physical environment and other organisms. Community and ecosystem processes will be discussed. Labs will explore approaches including modeling and analysis of data. Integrated Writing course.</td>
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<tr>
<td>ACC2070</td>
<td>GR</td>
<td>Careers in Accounting</td>
<td>ACC</td>
<td>1</td>
<td>Introduction to career opportunities in accounting.</td>
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</table>
| FR6630    | GR          | 20th Cent Lit: Drama                           | FR         | 3     | Study of modern French theatre including: Cocteau, Giraudoux, Anouilh, Beckett, Ionesco, Césaire, Duras, Genet and Sarrie. Taught in French. Department Managed Prerequisite(s): Graduate level FR 5110 Minimum Grade of D or Graduate level FR 5120 Minimum Grade of D or Graduate level FR 5210 Minimum Grade of D or Graduate level FR 5220 Minimum Grade of D<3>
Senior Neuroscience majors will select a neuroscience topic, critically analyze the scientific literature, research, reports, and discussion of topics dealing with gender and literature (e.g., literature by and about women, feminist critical theory and practice, and gender roles in literature). Students will be expected to catalog a list of relevant works, learn how to search databases, and write a scientific review article on the study of that topic. Integrated weekly lecture that will provide background information on the theory behind the project.

Topics are designed to give students laboratory management experience along with a short weekly lecture that will provide background information on the theory behind the project. Totes vary. Preparers candidates for their first year of teaching. Topics include: classroom management, collaboration with others, school policies and procedures, resident educator program resume building, licensure information, interviewing techniques, and creating a portfolio.

Study of the concepts, terminology, data models, and analytical functions of Geographic Information System, availability and processing of digital data, application of GIS as a mapping tool, spatial analysis of environmental and geologic problems. ESRI ArcGIS is used for hands-on exercises and an independent mapping project with comprehensive coverage. Three hours lecture and two hours lab are combined.

Study of the concepts, terminology, data models, and analytical functions of Geographic Information System, availability and processing of digital data, application of GIS as a mapping tool, spatial analysis of environmental and geologic problems. ESRI ArcGIS is used for hands-on exercises and an independent mapping project with comprehensive coverage. Three hours lecture and two hours lab are combined.
<table>
<thead>
<tr>
<th>Quarter</th>
<th>Number</th>
<th>Credits</th>
<th>Course Title</th>
<th>Department</th>
<th>Course Description</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>P&amp;N6100</td>
<td>6100</td>
<td>Human Physiology</td>
<td>P&amp;N</td>
<td>Physiology &amp; Neuroscience</td>
<td>Lecture</td>
<td>The course prepares the students to learn design aspects used in orthopaedic devices. It introduces an overview of human/mammalian organ physiology. Fundamental mechanisms and the experimental basis for current understanding is emphasized. Prerequisite: Introductory biology, chemistry, physics, or permission of instructor.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>RHB4040</td>
<td>4040</td>
<td>Assisted Tech Ind Living</td>
<td>RHB</td>
<td>Rehabilitation</td>
<td>Lecture</td>
<td>History, legislation, and philosophy of independent living and assistive technology; includes experience using AT equipment, accessibility study, and an independent living project.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HED2850</td>
<td>2850</td>
<td>Comp School Health Ed</td>
<td>HED</td>
<td>Health Education</td>
<td>Lecture</td>
<td>Elements of K-12 health education: core content; relationship to Coordinated School Health/Whole School, Whole Community, Whole Child; controversy management, and guidelines for classroom applications and practice.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS6260</td>
<td>6260</td>
<td>PA in a Global Society</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>Lecture</td>
<td>Places American public administration traditions and practices into comparative perspective. Explores the similarities and differences between administrative work in the U.S. and other countries around the world. Examines the extent to which globalization has affected the practice of public administration as well as global trends that have become apparent in administrative reform today.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY7890</td>
<td>7890</td>
<td>Continuing Registration</td>
<td>PHY</td>
<td>Physics</td>
<td>Independent Study</td>
<td>Continuing Registration</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED1100</td>
<td>1100</td>
<td>Intro to MCE</td>
<td>ED</td>
<td>Education</td>
<td>Lecture</td>
<td>An introduction to middle level teaching. Topics include preparation of teachers, requirements for teacher licensure, professional organizations, middle school curricula, and effective practices. School visits will be part of the course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN4330</td>
<td>4330</td>
<td>Pas de Deux Class</td>
<td>DAN</td>
<td>Dance</td>
<td>Studio</td>
<td>Partnered dance from basic social dance, theatre partnering to contemporary and pointe partnering. Stresses cooperation, trust, and technique.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY5830</td>
<td>5830</td>
<td>Cognitive Neuro Methods</td>
<td>PSY</td>
<td>Psychology</td>
<td>Lecture</td>
<td>The course will provide an introduction to the research methods used in cognitive neuroscience, giving students a hands-on experience with the design of neuroscientific experiments, data collection, data analysis, as well as communication of data through writing.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IT2550</td>
<td>2550</td>
<td>Emerging Software Tech</td>
<td>IT</td>
<td>Information Technology</td>
<td>Lecture</td>
<td>Core functionality of ArcGIS Desktop software: how to make maps, carry out spatial analysis, and build and edit spatial databases in the context of realistic projects. Some of the tasks covered include: symbolizing and labeling maps, classifying data, querying maps, analyzing spatial relationships, setting map projections, building spatial databases, editing data, geocoding addresses and making map layouts.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMB4444</td>
<td>4444</td>
<td>Cell Signaling</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
<td>Lecture</td>
<td>An in depth study of major cell signaling pathways as related to human health and disease.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDL7990</td>
<td>7990</td>
<td>Principal Practicum</td>
<td>EDL</td>
<td>Educational Leadership</td>
<td>Internship</td>
<td>Provides experience in school leadership and administration at the building level. Candidates perform administrative tasks under the supervision of a licensed school building administrator.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY9060</td>
<td>9060</td>
<td>Multivariate Methods</td>
<td>PSY</td>
<td>Psychology</td>
<td>Lecture</td>
<td>Issues in multivariate analysis are reviewed using statistical software programs. These issues include path analysis, principle components analysis, confirmatory factor analysis, and structural regression models.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6990</td>
<td>6990</td>
<td>Spec Probs Earth Env Sci</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>Lecture</td>
<td>Research and problems designed for specific needs and talents of students at the graduate level. May be taken for a letter grade or pass/unsatisfactory.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>GER1020</td>
<td>1020</td>
<td>Beginning German II</td>
<td>GER</td>
<td>German</td>
<td>Lecture</td>
<td>Communicative introduction to German structures and vocabulary and to Germanic culture. Practice in speaking, listening, reading, and writing. Department Managed Prerequisite(s): Undergraduate level GER 1010 Minimum Grade of C or higher.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH4030</td>
<td>4030</td>
<td>Urban Anthropology</td>
<td>ATH</td>
<td>Anthropology</td>
<td>Lecture</td>
<td>Explores the nature of the city from an anthropological perspective, confronting basic questions such as the extent to which the urbanite experiences a different kind of culture from his/her rural counterpart and the factors that have contributed to the growth and expansion of urbanism over the last few centuries? Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME7220</td>
<td>7220</td>
<td>Exp Ortho Eng</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>Lecture</td>
<td>The course prepares the students to learn design aspects used in orthopaedic devices. It introduces the learner the components and designs of total joint replacement implants and fixation methods. Students research FDA application categories for various types of devices.</td>
</tr>
</tbody>
</table>
Spring 2021 | KNH1600 | 1600 | Step Aerobics | KNH | Kinesiology & Health | 1 | Fundamental skills and knowledge of Step Aerobics. Competency-based approach. Course may accommodate disabled students when appropriate. | UG | LB | Lab

Spring 2021 | KNH1660B | 1660B | Swimming: Beginning | KNH | Kinesiology & Health | 1 | Fundamental skills and knowledge of Swimming: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate. | UG | LB | Lab

Spring 2021 | ED6900 | 6900 | Workshops in Education | ED | Education | 0.5 | Workshops in selected areas of education taught through the Division of Professional Development (DPD) | GR | LE | Lecture

Spring 2021 | HST7460 | 7460 | Seminar Mod Military Hist | HST | History | 3 | Examines aspects of the history of military affairs in Europe, the United States, and/or the wider world from the 16th century to the present. Topics vary. | GR | SE | Seminar

Spring 2021 | DAN3020 | 3020 | Ballet III | DAN | Dance | 3 | Vocabulary, techniques, and theory of advanced ballet. Emphasis on body alignment and flexibility. | UG | ST | Studio

Spring 2021 | URS6400 | 6400 | Comm./Regional Planning | URS | Urban Affairs | 3 | Explores links between urban planning and urban administration, and planning as a profession and a process. | GR | LE | Lecture

Spring 2021 | MUE4490 | 4490 | Chamber Players | MUE | Musc: Ensembles | 1 | Exploration and performance of compositions for small wind ensemble (usually 8 to 16 players). Typical repertoire may include works by Gabrieli, Mozart, Beethoven, Schubert, Dvorak, Strauss, or others. The ensemble functions according to a player pool concept, utilizing instrumental forces as needed for various works. Audition and instructor permission required. | UG | LL | Lecture/Lab Combination

Spring 2021 | GTW0010 | 0010 | Clark State Gateway Pathway | GTW | Gateway | 0 | | UG | LE | Lecture

Spring 2021 | ATR4820 | 4820 | Pharmacology for AT | ATR | Athletic Training | 3 | Pharmacological information that pertains to the care of the physically active. | UG | LE | Lecture

Spring 2021 | MUE4670 | 4670 | Pep Band | MUE | Musc: Ensembles | 1 | Performs jazz, rock, and contemporary music at all home basketball games and for other campus activities. Audition required. | UG | LL | Lecture/Lab Combination

Spring 2021 | EE6000 | 6000 | Linear Systems II | EE | Electrical Engineering | 3 | Covers discrete time signals and systems, the z-Transform, input/output theory and discrete Fourier transform, IIR and FIR filter design, relationships, and sampling. | GR | LE | Lecture

Spring 2021 | ATR7150 | 7150 | Clinical Practice I | ATR | Athletic Training | 2 | Clinical experience with a preceptor to practice, apply and master a variety of entry-level skills learned in the previous semester. Evaluation will occur in both the clinical and classroom settings. | GR | PR | Practicum

Spring 2021 | NUR7551 | 7551 | Chronic Care for PNPs | NUR | Nursing | 6 | Application of theoretical frameworks and research findings for health promotion, disease prevention, health maintenance, and health restoration for children and adolescents. The clinical practicum will focus on advanced nursing care, incorporating multi-disciplinary collaboration for the delivery of comprehensive health care in various care settings. Emphasis is on management of pediatric chronic conditions. | GR | LE | Lecture

Spring 2021 | NUR2400 | 2400 | Intro Clin Nursing | NUR | Nursing | 7 | Introduces nursing theories with emphasis on interprofessional, intraprofessional, and patient-centered communication skills, the lab and clinical experiences basic to clinical practice, critical reasoning, and the application of health assessment skills in the clinical setting. (3 didactic hrs; 2 clinical hrs; 2 lab hrs) | UG | LE | Lecture

Spring 2021 | M&I8440 | 8440 | Sem Topics - M&I | M&I | Microbiology & Immunology | 2 | Molecular virology, viral oncology, immunology, transplantation immunology, tumor immunology, immune regulation, infection and immunity. | GR | SE | Seminar

Spring 2021 | DAN3720 | 3720 | Dance Pedagogy | DAN | Dance | 1 | Methods for teaching dance using an anatomical approach as the basis for sound training in all techniques. | UG | ST | Studio

Spring 2021 | ME4330 | 4330 | Compressible Flow | ME | Mechanical and Materials Engr | 3 | Fundamentals of gas flow in the subsonic to supersonic flow regimes. Wave propagation in compressible medium, one-dimensional isentropic flow with area change, frictional effects, heat transfer effects and two dimensional waves. | UG | LE | Lecture

Spring 2021 | RHB8650 | 8650 | Rehab Counseling Pract | RHB | Rehabilitation | 3 | Demonstrate basic skills, techniques, and competencies learned in previous coursework while delivering rehabilitation counseling services to consumers. The practicum experience is determined individually between the student, university supervisor and site supervisor. | GR | PR | Practicum

Spring 2021 | EDL7300 | 7300 | Research Design Methods | EDL | Educational Leadership | 3 | Research method design for personal or professional goals; culminates in the analysis of existing research data. | GR | LE | Lecture

Spring 2021 | MTH8000 | 8000 | Graduate Seminar | MTH | Mathematics | 1 | Seminar on selected advanced topics in mathematics. | GR | SE | Seminar

Spring 2021 | SOC3600 | 3600 | Social Inequality | SOC | Sociology | 3 | Structures, theories and consequences of social inequality. This course explores the patterns of inequality, as well as early and contemporary theories of stratification. | UG | LE | Lecture
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Offered by</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2021</td>
<td>ENG3840</td>
<td>3</td>
<td>ENG</td>
<td>English</td>
<td>Techniques of dramatic writing emphasizing writing of original plays.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED9000</td>
<td>9</td>
<td>ED</td>
<td>Education</td>
<td>This course guides implementation of individual Master's thesis projects in education. The course includes inquiry and data gathering through analysis and solution identification, writing of thesis, and formal presentation.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1200B</td>
<td>120B</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>Fundamental skills and knowledge of Fencing: Beginning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS4095</td>
<td>4095</td>
<td>EDS</td>
<td>Education - Special Education</td>
<td>Administration and interpretation of assessments to plan, implement, and communicate dyslexia remediation in a professional setting. Write professional case study integrating assessment and tutoring data. Required: 30 hours of field experience.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE6712L</td>
<td>6712L</td>
<td>IHE</td>
<td>Industrial &amp; Human Fac Engr</td>
<td>Required laboratory for IHE 6712.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY6500</td>
<td>6500</td>
<td>PHY</td>
<td>Physics</td>
<td>Fundamental laws of electricity and magnetism presented from the viewpoint of field theory. Maxwell's equations, transient and steady state currents, electric and magnetic properties of matter, and electromagnetic radiation.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS7981</td>
<td>7981</td>
<td>PLS</td>
<td>Political Science</td>
<td>This course examines the process whereby the president and national security policymakers use strategic intelligence in foreign policy. The process is examined from its historical inception up to contemporary practice.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>COM6250</td>
<td>6250</td>
<td>COM</td>
<td>Communication</td>
<td>Basic themes and issues that have developed in health communication research including physician-patient and nurse-patient communications, organizational communication in health care organizations, and relationships among care providers.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6530</td>
<td>6530</td>
<td>EES</td>
<td>Earth &amp; Environmental Sciences</td>
<td>An introduction to the diagenesis of ancient and modern sedimentary rocks. Topics include the theory and application of petrographic techniques with emphasis on porosity development and interpretation of diagenetic environments. Four hours lecture/lab combination.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY3220</td>
<td>3220</td>
<td>PHY</td>
<td>Physics</td>
<td>Physical optics, with some review of geometrical optics. Topics include optical instrumentation, interference of light, optical interferometry, diffraction, fiber optics, lasers and nonlinear optics.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3210</td>
<td>3210</td>
<td>ATH</td>
<td>Anthropology</td>
<td>Introduction to the core concepts and methods of medical anthropology, emphasizing the cultural aspects of health and healing.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7720</td>
<td>7720</td>
<td>CS</td>
<td>Computer Science</td>
<td>Advanced data mining is concerned with the extraction of novel and useful knowledge from large amounts of data. This course studies the fundamental and advanced concepts, principles, issues, tasks and techniques of data mining. Topics include data preparation, data mining for various knowledge types, data mining from various data types and applications, evaluation and validation, scalability.&lt;b&gt; Department Managed Prerequisite(s): Graduate level CS 6710 Minimum Grade of D-&lt;b&gt;</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3200</td>
<td>3200</td>
<td>ATH</td>
<td>Anthropology</td>
<td>Selected topics concerning the method and theory of anthropological thought and relationships to the allied disciplines of economics, linguistics, art, politics, and history. Emphasis on current trends influencing research in cultural anthropology. Topics vary.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PLS6880</td>
<td>6880</td>
<td>PLS</td>
<td>Political Science</td>
<td>Survey of literature on causes and resolution of conflict and application of concepts and theories to analysis of a real-world international conflict.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHL3510</td>
<td>3510</td>
<td>PHL</td>
<td>Philosophy</td>
<td>Examines dramatic paradigm shifts in the history of science including Newton, Einstein, Darwin, quantum theory and beyond, including emerging scientific ideas. Integrated Writing course.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4500</td>
<td>4500</td>
<td>BIO</td>
<td>Biology</td>
<td>Use of exercise as it relates to the prevention of disease specific risk factors, the prevention of occurrence or reoccurrence of a disease-specific event.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4900</td>
<td>4900</td>
<td>BIO</td>
<td>Biology</td>
<td>Off-campus experience in cooperating scientific agency or industrial organization. Reports and specific assignments determine in consultation with faculty advisor and supervising professionals. Application required.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>KNH1550B</td>
<td>1550B</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
<td>Fundamental skills and knowledge of GRACIE Self Defense: Basic. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6120</td>
<td>6120</td>
<td>EE</td>
<td>Electrical Engineering</td>
<td>For each student to gain a working knowledge of industrial controls and automation. Focus is on developing an understanding of wiring diagram creation, hardware selection, and programmable logic controller design and operation.</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>Code</td>
<td>Units</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>MBA7577</td>
<td>577</td>
<td></td>
<td>S-T Study Abroad</td>
<td>MBA 3 Faculty-supervised short-term study abroad. Students will be assigned readings about the economy, culture and business climate of the country to be visited prior to the tour. Students will also carry out a business analysis of firms to be visited on the tour. In consultation with the instructor, students will prepare a written report on a topic relevant to the tour.</td>
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</tr>
<tr>
<td>ATR7350</td>
<td>7350</td>
<td></td>
<td>Clinical Practice II</td>
<td>ATR 2 Clinical experience with a preceptor to practice, apply and master a variety of entry-level skills learned in the previous semester. Evaluation will occur in both the clinical and classroom settings.</td>
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</tr>
<tr>
<td>ME5320</td>
<td>5320</td>
<td></td>
<td>Thermodynamic II</td>
<td>ME 3 This course will apply the 0th, 1st, 2nd, and 3rd laws of thermodynamics, as well as conservation of mass, to a range of classical thermodynamic systems and phenomena. These include power and refrigeration cycles, gas mixtures, ideal vapor-gas mixtures, air conditioning, combustion, and chemical equilibrium. Department Managed Prerequisite(s): Undergraduate level ME 1020 Minimum Grade of C and (Undergraduate level ME 3310 Minimum Grade of C or Undergraduate level ME 5310 Minimum Grade of C).</td>
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<tr>
<td>PPH8230</td>
<td>8230</td>
<td></td>
<td>PH ILE Com'd Credit</td>
<td>PPH 1 Continuation of integrative learning experience project research carried out with faculty approval and supervision. Department Managed Prerequisite(s): Graduate level PPH 8210 Minimum Grade of P or Graduate level PPH 8220 Minimum Grade of P.</td>
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</tr>
<tr>
<td>STT4610</td>
<td>4610</td>
<td></td>
<td>Theory of Statistics I</td>
<td>STT 4 Probability, random variables, density and distribution functions, expectation, moment generating functions, special discrete and continuous distributions; joint, marginal and conditional distributions; independence, properties of expected values, functions of random variables, order statistics, transformations, limiting distributions, convergence in distribution, central limit theorem, statistics and sampling distributions.</td>
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</tr>
<tr>
<td>CHM6450</td>
<td>6450</td>
<td></td>
<td>Concepts Chem I ECE/MCE</td>
<td>CHM 3.5 Basic fundamental concerns of chemistry for early childhood education majors. Those concrete observable topics most appropriate for early childhood education minors will be emphasized. Course includes an in-depth study of heat and temperature.</td>
<td></td>
</tr>
<tr>
<td>EES4990</td>
<td>4990</td>
<td></td>
<td>Problems Earth &amp; Env Sci</td>
<td>EES 0.5 Research and problems designed for undergraduate students at the senior level. May be taken for a letter grade or pass/unsatisfactory.</td>
<td></td>
</tr>
<tr>
<td>PSI9200</td>
<td>9200</td>
<td></td>
<td>Diversity Integration I</td>
<td>PSI 3 This course will focus on developing and practicing the ability to have difficult dialogues and engaging in intersectional analyses necessary to build a posture of cultural humility as a foundational skill toward clinical competence with diverse groups. This course will be the first in a sequence of three diversity intensive courses. These dialogues will ask students to engage in self-reflection and intersectional analyses of multiple identities as mechanisms that inform human suffering and power, privilege and difference and similarities and differences that impact analytical and relationship skills. We will also be looking at social constructions that inform the social political landscape. The ability to dialogue and engage in an authentic intersectional analyses is considered an essential skill in preparation for clinic work with diverse marginalized and privileged populations. We consider the ability to maintain a critical dialogue to be a foundational skill and an intervention in and of itself.</td>
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<tr>
<td>ASM7872</td>
<td>7872</td>
<td></td>
<td>Space Medicine II</td>
<td>ASM 2 Space Medicine II will introduce Aerospace physicians to the unique environment of medical operations involved in sub-orbital, orbital, and beyond earth orbit space flight operations.</td>
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</tr>
<tr>
<td>ED6150</td>
<td>6150</td>
<td></td>
<td>Grad Field Experience</td>
<td>ED 1 Introduces students to the educational process through participation in a P-12 classroom and through an examination of classroom dynamics within a natural setting.</td>
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</tr>
<tr>
<td>BMS8070</td>
<td>8070</td>
<td></td>
<td>Virology</td>
<td>BMS 3 (Also listed as M&amp;I 7310.) This course provides an introduction to the field of virology. The course emphasizes the intrinsic properties of viruses that cause human disease and their interaction with cells, multiplication, genetics, and tumor induction.</td>
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<tr>
<td>PHL5140</td>
<td>5140</td>
<td></td>
<td>Theories of Knowledge</td>
<td>PHL 3 Examination of philosophical theories of knowledge from ancient times to the present. Readings vary but may include: Plato, Descartes, Hume, Kant, Russell, Moore, Gettier, Nozick, Bonjour, Quine, Kripke, Putnam and Williamson.</td>
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</tr>
<tr>
<td>ART4670</td>
<td>4670</td>
<td></td>
<td>Adv Printmkgr: Intaglio</td>
<td>ART 3 Development of personalized concepts and individual aesthetic expression in printmaking. This course has a fee that is non-refundable once the term begins. Department Managed Prerequisite(s): Undergraduate level ART 3670 Minimum Grade of D.</td>
<td></td>
</tr>
<tr>
<td>BIO2100</td>
<td>2100</td>
<td></td>
<td>Orientation Sem: Bio Sci</td>
<td>BIO 1 Overview of programs, career options, department activities, and research opportunities in the biological sciences.</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>ARA3120</td>
<td>Levantine Arabic</td>
<td>3</td>
<td>An introduction to the spoken Arabic dialect of Syria, Lebanon, Jordan and Palestine for advanced speakers of Arabic.</td>
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</tr>
<tr>
<td>MTH4510</td>
<td>Modern Algebra</td>
<td>3</td>
<td>Elementary number theory: divisibility, prime numbers, congruences, quadratic reciprocity, and number-theoretic functions. Introduction to rings, integral domains, and fields.</td>
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</tr>
<tr>
<td>MTH6260</td>
<td>Matrix Computations</td>
<td>3</td>
<td>Numerical linear algebra survey using high-level computing tools. Topics include linear equations, matrix factorizations, eigenvalue problems, least squares, applications of singular value decompositions, and iterative methods for large sparse matrices. Conditioning of problems and accuracy and stability of algorithms are emphasized. Department Managed Prerequisite(s): Undergraduate level MTH 2530 Minimum Grade of D or (Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAA7670</td>
<td>Internship II in SAHE</td>
<td>1</td>
<td>This field-based experience provides students with advanced practice and supervision in areas of interest in SAHE.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR200C</td>
<td>Intro Clin Nursing Clinical</td>
<td>0</td>
<td>Required clinical for NUR 2400.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OIS1160</td>
<td>Intro to App Business</td>
<td>3</td>
<td>Application of the principles of realistic, contemporary, and verse based drama to musical theatre texts. Structured as a scene study class in which students develop songs as monologues and in scene work.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE5260</td>
<td>Random Signals and Noise</td>
<td>3</td>
<td>Provides a practical introduction to the concepts of random events, characterization of stochastic signals, first and second order moment descriptions of random processes, and input/output descriptions of random signals and noise in linear systems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT4880</td>
<td>Ind Reading Anatomy</td>
<td>1</td>
<td>Various anatomy topics will be discussed with an assigned faculty advisor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY6270</td>
<td>Physics - Remote Sensing</td>
<td>3</td>
<td>Purpose and motivation for remote sensing; spectral temporal, spatial, and radiometric characteristics and resolution issues; propagation of electromagnetic energy; optics; atmospheric effects; image collection and quality; sensor performance measures; platforms and orbits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY4940</td>
<td>Senior Project</td>
<td>3</td>
<td>Selected problems in experimental and theoretical physics with critical analysis of results. Integrated Writing course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UVC1095</td>
<td>Prior Lrng Assessment</td>
<td>3</td>
<td>Helps students identify areas of learning to have evaluated for college-level equivalency. Guides students through the preparation and compilation of all components required for the evaluation of a portfolio of prior learning through LearningCounts.org.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HED4570</td>
<td>Hlth Fit Chronic Disease</td>
<td>3</td>
<td>Health and fitness management for all populations, including apparently healthy, increased risk, and those diagnosed with chronic diseases and disorders. Integrated Writing course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNH1720A</td>
<td>Tennis</td>
<td>1</td>
<td>Fundamental skills and knowledge of Tennis. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APS3040</td>
<td>APS Management</td>
<td>3</td>
<td>A course to provide opportunities for students to gain knowledge, practice, and study in technical management. Focus on management fundamentals such as organizational structure, planning, control, change, etc. as they apply to business and organizational settings. Integrated Writing course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED6490</td>
<td>MCE Inquiry Project</td>
<td>3</td>
<td>Students will be required to complete an inquiry project and the unit portfolio in order to partially fulfill the requirements for the Masters of Education Degree in Middle Childhood Education.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HST3800</td>
<td>Intro to Gender History</td>
<td>3</td>
<td>Special topics in gender history, such as masculinity, femininity, sexuality, family, and women's history. Focus may be on one nation, region, or a comparative perspective.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME4850</td>
<td>Six Sigma for Engineers</td>
<td>3</td>
<td>Introduction to the practical application of Six Sigma tools in production and service contexts. Includes videos and case studies of real world applications. Six Sigma Green Belt Certificate awarded to students upon successful completion of course and in-class project.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR8835</td>
<td>Sys App &amp; Anly Meth DNP</td>
<td>3</td>
<td>Use health care system analysis and appraisal to evaluate system problems, evidence and opportunities to optimize population care. Application of EBP and QI processes to support change in systems to promote population health. Uses appropriate databases to identify project literature/evidence.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Section</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Term</td>
</tr>
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<tr>
<td>GEO6430</td>
<td>6430</td>
<td>4</td>
<td>Geographic Info Sci Prin</td>
<td>Study of the principles, structure and application of macro and micro spatial analytical techniques. Utilizes state-of-the-art software to create map layers that can be stacked and interpreted.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>PSC7920</td>
<td>7920</td>
<td>3</td>
<td>Sec Risk Mgmt</td>
<td>Introduces management aspects of Cyber Security from an IT governance perspective by understanding the DoD, Federal, and IC information technology management goals. Topics include DISCAP, FISMA, CNSS, FIPS, and NIST Standards.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>LAT1020</td>
<td>1020</td>
<td>3</td>
<td>Beginning Latin II</td>
<td>Introduction to advanced principles in Latin grammar.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>CHM6610</td>
<td>6610</td>
<td>2</td>
<td>Synthetic Polymer Chm</td>
<td>Study of synthetic polymerization in homogeneous and heterogeneous media; properties of commercial polymers.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>ED4210</td>
<td>4210</td>
<td>3</td>
<td>Read &amp; Write Across Cur</td>
<td>Engages teacher candidates in reading and writing across various literary genres and introduces them to reading and writing workshop methods. Integrated Writing course.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>EES3160L</td>
<td>3160L</td>
<td>0</td>
<td>Stratigraphy &amp; Sediment Lab</td>
<td>Required laboratory for EES 3160.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>CHM6500</td>
<td>6500</td>
<td>4</td>
<td>Concepts Chem II MCE</td>
<td>Concepts in chemistry II is for graduate students in middle childhood science education (MST Program). Course includes detailed study of chemical reactions, kinetics, environmental issues, acids/bases, and nuclear chemistry. Portfolio development will be utilized for students to learn the development of inquiry activities for the classroom.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>DMV999</td>
<td>999</td>
<td>0</td>
<td>For Administrative Use Only</td>
<td></td>
<td>Spring 2021</td>
</tr>
<tr>
<td>ISG7260</td>
<td>7260</td>
<td>3</td>
<td>Assess in Gfld Ed</td>
<td>National and State perspectives on the role of assessment in program design, identification of students, development of written education plans and classroom instruction.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>WGS3000</td>
<td>3000</td>
<td>3</td>
<td>Crit Sexuality Studies</td>
<td>Introduction to how individual identities and social expressions of sexuality are shaped and reflected by cultural, political, historical, psychological, and biological contexts. Students with credit for WMS 3010 cannot receive credit for WGS 3000.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>SOC4081</td>
<td>4081</td>
<td>1</td>
<td>Independent Study</td>
<td>Research project in an area of specialized interest in sociology. Integrated Writing course.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>CEG3970</td>
<td>3970</td>
<td>1</td>
<td>Independent Study</td>
<td>Independent study in computer engineering topics.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>EE6700L</td>
<td>6700L</td>
<td>1</td>
<td>Introduction to MEMS Lab</td>
<td>Experimental design, realization and testing of MEMS devices with emphasis on sensing applications.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>PSI8310</td>
<td>8310</td>
<td>4</td>
<td>Psychopatholog y</td>
<td>This course discusses the psychological disorders of the DSM-IV-TR pertinent to children and adults as well as etiology and diagnostic issues, provides a brief review of evidence-based treatment and research salient to those disorders, and addresses multicultural and ethical considerations.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>CEG8980</td>
<td>8980</td>
<td>1</td>
<td>Continuing Registration</td>
<td>A student must be registered at the graduate level in the quarter in which the degree is granted, or in any term in which the program is affording some service, such as giving an examination, reading a thesis, or giving advice on the thesis after completion of all other requirements of coursework and research.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>CNL6200</td>
<td>6200</td>
<td>3</td>
<td>Clin Pathology in Counsl</td>
<td>Introduces students in human services to basic psychopathology, factors influencing the behavior of individuals and methods a counselor may use in observing, analyzing and improving attitudes and behavior.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>TH4240</td>
<td>4240</td>
<td>3</td>
<td>Adv Design Studio I</td>
<td>Intensive study of theatrical costume, scenery, lighting, and/or sound design with a focus on script interpretation. Includes practical design work with an emphasis on produced designs, professional development, and specialization in the student's area of design.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>EES5600</td>
<td>5600</td>
<td>4</td>
<td>Water and Solid Waste</td>
<td>Relationship of physical and biotic environments to design and operation of systems and procedures employed in maintenance and promotion of a quality, healthful human environment. Emphasis on water quality control and methods and management of waste disposal. Topics covered include regulatory history, regulatory processes, environmental audits, requirements for water and waste generators, transporters, treatment/storage/disposal facilities, and pollution prevention concepts.</td>
<td>Spring 2021</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Instructor</td>
<td>Title</td>
<td>Level</td>
<td>Notes</td>
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<tr>
<td>PSY6950</td>
<td>6950</td>
<td>PSY</td>
<td>Sex &amp; Endocrinology Cap</td>
<td></td>
<td>Communication-intensive seminar integrating knowledge on sexuality and endocrinology.</td>
</tr>
<tr>
<td>KNH7530</td>
<td>7530</td>
<td>KNH</td>
<td>Assessment in Adapted PE</td>
<td></td>
<td>Provides an overview of developing and diagnosing diverse motor, physical, and sensory deficiencies in exceptional children. Administrative procedures and interpretation of numerous assessment instruments will be covered.</td>
</tr>
<tr>
<td>BMS7412</td>
<td>7412</td>
<td>BMS</td>
<td>Rehab Eng Design II</td>
<td></td>
<td>Continuation of BMS 7411. Application of knowledge and experience in the rehabilitation engineering design, research and development process. Includes funding issues.</td>
</tr>
<tr>
<td>RHB3660</td>
<td>3660</td>
<td>RHB</td>
<td>Wellness for Helpers</td>
<td></td>
<td>Importance of wellness and stress management to maximize their career potential in the social service field. Physiological, psychological, and social elements associated with stress. Various approaches to enhance overall wellness and lessen life stress.</td>
</tr>
<tr>
<td>PSY8110</td>
<td>8110</td>
<td>PSY</td>
<td>Appl. of Visual Science</td>
<td></td>
<td>Study of visual systems including psychophysical measurement, temporal and spatial properties, display criteria, colorimetry, and visual system modeling.</td>
</tr>
<tr>
<td>ANT8990</td>
<td>8990</td>
<td>ANT</td>
<td>Anatomy Research</td>
<td></td>
<td>Supervised thesis research.</td>
</tr>
<tr>
<td>LPL4450</td>
<td>4450</td>
<td>LPS</td>
<td>Adv Criminal Investgn</td>
<td></td>
<td>Criminal investigative techniques including forensics, evidence, interviews, and interrogation as applied to specific types of crimes. Integrated Writing course.</td>
</tr>
<tr>
<td>EES2550</td>
<td>2550</td>
<td>EES</td>
<td>Earth History</td>
<td></td>
<td>Comprehensive treatment of the earth's past as interpreted through the study of rocks and fossils. Basic concepts include geologic time and age dating, and the physical, chemical, and organic evolution during geologic time periods. The history of plate movements and mountain building events, especially in North America. Three hours lecture, two hours lab. Department Managed Prerequisite(s): Undergraduate level EES 2510 Minimum Grade of D or (Undergraduate level EE 3510 and Undergraduate level MTH 2240 and Undergraduate level ME 3210 Minimum Grade of C) and Undergraduate level MTH 2310 Minimum Grade of D)</td>
</tr>
<tr>
<td>ME6250</td>
<td>6250</td>
<td>ME</td>
<td>Kinematics &amp; Design-Mech</td>
<td></td>
<td>Graphic, analytical, numerical, and symbolic techniques are used in the kinematic and dynamic analysis of machines. Computer-aided design of mechanisms is introduced. Emphasis on the application of these techniques to planar mechanisms. Department Managed Prerequisite(s): Undergraduate level ME 2210 Minimum Grade of C</td>
</tr>
<tr>
<td>MUS7800</td>
<td>7800</td>
<td>MUS</td>
<td>Graduate Pedagogy</td>
<td></td>
<td>Advanced course in techniques, practices, and materials for group and individual instruction. Musical styles and interpretation. Performance in instruments or voice. Titles vary.</td>
</tr>
<tr>
<td>MUA4410</td>
<td>4410</td>
<td>MUA</td>
<td>Applied Music</td>
<td></td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
</tr>
<tr>
<td>BIO4440</td>
<td>4440</td>
<td>BIO</td>
<td>Plant Physiology</td>
<td></td>
<td>Plant physiology, including the major features of nutrition, photosynthesis, transport, hormones, development, and environmental responsiveness. Laboratory includes analytical techniques, experimental design, and interpretation and communication of scientific results.</td>
</tr>
<tr>
<td>ENG4770</td>
<td>4770</td>
<td>ENG</td>
<td>ESL: Pre-K-12</td>
<td></td>
<td>Focuses on ESL education in the U.S. and Ohio. Examines historical and legal precedents. Emphasizes components necessary for successful programs, including curricula, assessment, classroom dynamics, and parental involvement.</td>
</tr>
<tr>
<td>ATH4650</td>
<td>4650</td>
<td>ATH</td>
<td>Archaeology Field School</td>
<td></td>
<td>Summer field training in the methods of excavation and data recording at selected archaeological sites.</td>
</tr>
<tr>
<td>PTX7001</td>
<td>7001</td>
<td>PTX</td>
<td>Cellular Pharm &amp; Tox</td>
<td></td>
<td>Modern toxicology focuses on understanding the mechanism of action of chemicals at the cellular level. This course will explore a spectrum of cellular mechanisms of toxicity providing a broad perspective of cutting edge research in toxicology.</td>
</tr>
<tr>
<td>COM6520</td>
<td>6520</td>
<td>COM</td>
<td>Race, Class Gender Com</td>
<td></td>
<td>Theoretical and pragmatic consideration of the impact of race, class, and gender on the communication process within society.</td>
</tr>
<tr>
<td>EE4130L</td>
<td>4130L</td>
<td>EE</td>
<td>Control Systems Lab</td>
<td></td>
<td>Application and testing of control systems theory with electromechanical systems. Department Managed Prerequisite(s): (Undergraduate level EE 3210 Minimum Grade of C or Undergraduate level ME 3210 Minimum Grade of C and Undergraduate level MTH 2310 Minimum Grade of D) or (Undergraduate level EE 3510 Minimum Grade of C and Undergraduate level MTH 2240 Minimum Grade of D)</td>
</tr>
<tr>
<td>ATR4630</td>
<td>4630</td>
<td>ATR</td>
<td>Evid Based Prac in AT</td>
<td></td>
<td>An in-depth course of study into the utilization of evidence-based medicine in the athletic training profession.</td>
</tr>
<tr>
<td>SAA6651</td>
<td>6651</td>
<td>SAA</td>
<td>Study Abroad in SAHE</td>
<td></td>
<td>Provides students with foundational knowledge and skills in study abroad practice and research in higher education.</td>
</tr>
<tr>
<td>HST3000</td>
<td>3000</td>
<td>HST</td>
<td>Intro Hist Analysis</td>
<td></td>
<td>Explores the historian's craft by studying different historical approaches and genres. Integrated Writing course.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Instructor</td>
<td></td>
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</tr>
<tr>
<td>ANT3100L</td>
<td>Anatomy</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>CEG4422</td>
<td>Computer Engineering</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>DOS9010</td>
<td>Doctor Org Studies</td>
<td>3</td>
<td>Lecture</td>
<td>SE</td>
<td></td>
</tr>
<tr>
<td>COM4470</td>
<td>Com Relations in Orgs</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>EC3190</td>
<td>Institutional Economics</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>ARA6410</td>
<td>Intro to Arabic Fiction</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>PHY1120L</td>
<td>Physics</td>
<td>1</td>
<td>Laboratory</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>CS1300L</td>
<td>Data Science for Everyone Lab</td>
<td>0</td>
<td>Laboratory</td>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>LA2010</td>
<td>Effective Career Plan</td>
<td>1</td>
<td>Seminar</td>
<td>SE</td>
<td></td>
</tr>
<tr>
<td>RST2620</td>
<td>Regional Studies: China</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>PTX8110</td>
<td>Alt Healthcare Sys India</td>
<td>3</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>ASM7871</td>
<td>Space Medicine I</td>
<td>3</td>
<td>Seminar</td>
<td>SE</td>
<td></td>
</tr>
<tr>
<td>M&amp;I7890</td>
<td>Research in M&amp;I</td>
<td>1</td>
<td>Lab</td>
<td>LB</td>
<td></td>
</tr>
<tr>
<td>PTX8070</td>
<td>Cell Culture Training</td>
<td>1</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>BME4990</td>
<td>Independ Study in BME II</td>
<td>1</td>
<td>Independent Study</td>
<td>IS</td>
<td></td>
</tr>
<tr>
<td>CEG6400</td>
<td>Comp-Networks &amp; Security</td>
<td>4</td>
<td>Lecture</td>
<td>LE</td>
<td></td>
</tr>
<tr>
<td>Term</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Department</td>
<td>Credit Hours</td>
<td>Mode</td>
</tr>
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</tr>
<tr>
<td>Spring 2021</td>
<td>ENG7110</td>
<td>Literary Theory</td>
<td>ENG</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE3320L</td>
<td>Digital System Design Lab</td>
<td>EE</td>
<td>0</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6610</td>
<td>Curr Meth Mat M/M Need</td>
<td>EDS</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2510</td>
<td>Food Chem Analysis Lab</td>
<td>FAS</td>
<td>1</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CNL6220</td>
<td>Group Background &amp;Theory</td>
<td>CNL</td>
<td>3</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHI3980</td>
<td>Studies in Select Subj</td>
<td>CHI</td>
<td>1</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR7623</td>
<td>Superv -Psych NP Stds II</td>
<td>NUR</td>
<td>1</td>
<td>Practicum</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS4410</td>
<td>Cities and Technology</td>
<td>URS</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH4010</td>
<td>Kinship/Social Structure</td>
<td>ATH</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED5070</td>
<td>MCE Gen Math Instruction</td>
<td>ED</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HPR4100</td>
<td>Practicum II: HPR</td>
<td>HPR</td>
<td>1</td>
<td>Practicum</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CST830</td>
<td>Machine Learning</td>
<td>CS</td>
<td>3</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG1020</td>
<td>Basic Writing: ESL</td>
<td>ENG</td>
<td>3</td>
<td>Lecture</td>
</tr>
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<td>Spring 2021</td>
<td>STT4110</td>
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<td>IB4820</td>
<td>Intl Business Abroad</td>
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<td>SPN3210</td>
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<td>MTH3990</td>
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<td>MTH</td>
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<td>Checkpoint 2</td>
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<td>Spring 2021</td>
<td>ME5600</td>
<td>5</td>
<td>Exp. Meas. and Instr.</td>
<td>ME</td>
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<td>Spring 2021</td>
<td>ED3040</td>
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<td>MCE Gen Lang Arts Instr</td>
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<td>MUS2900</td>
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<td>African American Music</td>
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<td>EE6600</td>
<td>6</td>
<td>UAV Flight Control</td>
<td>EE</td>
<td>Electrical Engineering</td>
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<td>Spring 2021</td>
<td>M&amp;J7270</td>
<td>7</td>
<td>Pathogenic Microbiology</td>
<td>M&amp;J</td>
<td>Microbiology &amp; Immunology</td>
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<td>KNH1760</td>
<td>1.75</td>
<td>Walk-Jog-Run</td>
<td>KNH</td>
<td>Kinesiology &amp; Health</td>
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<td>ART2090</td>
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<td>2D Design and Color</td>
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<td>Spring 2021</td>
<td>ATR7300</td>
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<td>Orthopedic Assessment</td>
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<td>AES2230</td>
<td>2.25</td>
<td>Evolution of USAF II</td>
<td>AES</td>
<td>Aerospace Studies</td>
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<td>REL2060</td>
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<td>Asian Religions</td>
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<td>GERS5900</td>
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<td>BMB6990</td>
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<td>Spec Problems in Biochem</td>
<td>BMB</td>
<td>Biochem &amp; Molecular Biology</td>
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<td>Topics in Reading</td>
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<td>AES3330</td>
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<td>AES</td>
<td>Aerospace Studies</td>
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<td>ART4050</td>
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<td>Studies in Sculpture</td>
<td>ART</td>
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<td>Chinese Composition</td>
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<td>PN6400</td>
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<td>Development Neuroscience</td>
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<td>CHM1210R</td>
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<td>ATH</td>
<td>Anthropology</td>
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<td>Medical Aspects Seminar</td>
<td>RHB</td>
<td>Rehabilitation</td>
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<td>FR3220</td>
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<td>Adv Writing in French</td>
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<td>Spring 2021</td>
<td>EDL7330</td>
<td>Teacher Leadership</td>
<td>3</td>
<td>Review of published literature about classroom teachers as leaders. Critical and current issues relevant to the development of classroom teachers as leaders within the context of their roles.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>MTH4150</td>
<td>Scientific Computation</td>
<td>3</td>
<td>Modern computational techniques for simulating scientific phenomena.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>IT2200</td>
<td>Web Theory and Design I</td>
<td>3</td>
<td>Introduction to web authoring and programming using basic HTML authoring tools. 2 hours lecture/2 hours lab.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>WGS3600</td>
<td>Feminist/Sexuality Theory</td>
<td>3</td>
<td>Major concepts and themes in feminist, gender, and sexuality theories and applicability of theory to historical and contemporary concerns. Explores gender-based oppression in connection to race-based, class-based, and other forms of oppression. Integrated Writing course. Students with credit for WMS 4500 cannot receive credit for WGS 3600.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CTE4820</td>
<td>Laws &amp; Regs in Educ</td>
<td>3</td>
<td>Fundamental knowledge of legislation, regulations and guidance. Includes an overview of educational acts and amendments, landmark cases, teacher responsibilities, professionalism, ethics and case studies.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN3160</td>
<td>Foundations of Fin Plan</td>
<td>3</td>
<td>Basic concepts and techniques of financial planning from the perspective of a professional financial planner.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>MTH7510</td>
<td>Algebra I</td>
<td>4</td>
<td>Groups: isomorphism theorems, Jordan-Holder theorem, permutation groups, Sylow theorems, finitely generated Abelian groups, and free groups. Rings and Modules: homomorphisms, ideals, principal ideal domains, the Euclidean algorithm, unique factorization, radicals. Department Managed Prerequisite(s): Undergraduate level MTH 4520 Minimum Grade of D or Graduate level MTH 6520 Minimum Grade of D.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EDS6110</td>
<td>SS Content Stands IS</td>
<td>3</td>
<td>Introduction to Ohio Department of Education K through 12th grade social studies content standards. Addresses social studies knowledge, pedagogy, and PRAXIS exam expectations.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>PHL3140</td>
<td>Theories of Knowledge</td>
<td>3</td>
<td>Examination of the possibility of knowledge, limits, methods and value. Readings vary but may include Plato, Descartes, Hume, Russell, Moore, Gettier, Nozick, Bonjour, Quine, Kripke, Putnam and Williamson. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE8000</td>
<td>Select Topics in EE</td>
<td>1</td>
<td>Recent developments in Electrical Engineering and related fields. Titles vary.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>MIL4010</td>
<td>Adaptive Leadership</td>
<td>3</td>
<td>Students are assigned the duties and responsibilities of an Army staff officer and must apply the fundamentals of principles of training, training management, Army writing style and military decision making to weekly training meetings. Students plan, execute and assess ROTC training, weekly two-hour labs and recruiting events. Students are expected to train, mentor, and evaluate underclass ROTC students while being mentored and evaluated by ROTC cadre.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6810</td>
<td>Health Vulnerable Plms</td>
<td>3</td>
<td>Provides an overview of the concepts of health vulnerability and health disparity and identifies key historical events and periods in the development of the American healthcare system, particularly for vulnerable populations. Develops a comprehensive understanding of social, public health, and theoretical issues influencing the multi-faceted barriers to healthcare utilization for specific vulnerable populations.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG4400</td>
<td>Comp Networks &amp; Security</td>
<td>4</td>
<td>Introduction to computer networks, network security, and technologies for ensuring network security.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>SPM7050</td>
<td>Compliance &amp; Regulation</td>
<td>1</td>
<td>This course focuses on the NCAA legislative process and bylaws governing the operations of an athletics program. Included topics are those bylaws related to eligibility, amateurism, recruiting and financial aid.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>BME4550L</td>
<td>Bioinstrumentati on Laboratory</td>
<td>0</td>
<td>Required laboratory for BME 4550.</td>
<td>UG</td>
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<td>Spring 2021</td>
<td>ART5780</td>
<td>Sculpture</td>
<td>3</td>
<td>Development of personal concepts and aesthetic expression in sculpture. Emphasis on individualized approach to sculptural problems using media selected by the students. This course has a fee that is non-refundable once the term begins.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>IDL7140</td>
<td>Learning Mgt Systems &amp; Eval</td>
<td>3</td>
<td>Examines integrating curriculum with educational technologies such as learning management systems and the knowledge and skills necessary to evaluate the quality of online courses.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>MUE4680</td>
<td>Jazz Band</td>
<td>1</td>
<td>A jazz performance-oriented group. Students learn elements of ensemble execution, professionalism, jazz history, jazz styles, and jazz improvisation. Audition required.</td>
<td>UG</td>
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<td>Course Code</td>
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<td>EE2000L</td>
<td>Dig Design with HDL Lab</td>
<td>2000L</td>
<td>required laboratory for EE 4440.</td>
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<td>PLS4510</td>
<td>Political Science</td>
<td>4510</td>
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<td>SLI4600</td>
<td>Sign Language Interpreting</td>
<td>4600</td>
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<td>ATH6030</td>
<td>Urban Anthropology</td>
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<td>BIO4750</td>
<td>Ichthyology</td>
<td>4750</td>
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<td>MUE6930</td>
<td>University Men's Chorale</td>
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<td>Rehabiliation</td>
<td>3030</td>
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<td>BIO6420</td>
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<td>6420</td>
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<td>Writing in German</td>
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<td>Biomaterials Lab</td>
<td>4440L</td>
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<td>Env Bio Genes Org &amp; Ecos</td>
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<td>Topics in Science &amp; Math</td>
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<td>MIB8990</td>
<td>Microbiology Research</td>
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<td>Bioinstrumentation</td>
<td>6550</td>
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<td>Musical Theatre Voice</td>
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<td>6430</td>
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<td>Analy &amp; Pred Complex Sys</td>
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<td>Psychology</td>
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<td>Plasma Physics</td>
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<td>Kinesiology &amp; Health</td>
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<td>6424</td>
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<td>ENG4820</td>
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<td>Adv Poetry Wrtg Seminar</td>
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<td>4870L</td>
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<td>Instrumental Conducting</td>
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<td>PSI8440</td>
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<td>Professional Psychology</td>
<td>Psychodyn &amp; Interp Ther</td>
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<td>BIO1190</td>
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<td>Computer Science</td>
<td>Survey of CS and CEG</td>
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<td>EDL7751</td>
<td>7751</td>
<td>Educational Leadership</td>
<td>Instr Ldrshp Chng: STEM</td>
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<td>Course Code</td>
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<td>Credit Hours</td>
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<tr>
<td>MTH2310</td>
<td>2310</td>
<td>Calculus II</td>
<td>MTH Mathematics</td>
<td>4</td>
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<tr>
<td>EDS4195</td>
<td>4195</td>
<td>Pract II: Dyslexia Meth&amp;Interv</td>
<td>EDS Education - Special Education</td>
<td>1</td>
<td>PR</td>
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<tr>
<td>KNH2610</td>
<td>2610</td>
<td>Athletic Training</td>
<td>KNH Kinesiology &amp; Health</td>
<td>3</td>
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<tr>
<td>ME6730</td>
<td>6730</td>
<td>Introduction to Ceramics</td>
<td>ME Mechanical and Materials Engr</td>
<td>3</td>
<td>GR</td>
</tr>
<tr>
<td>HIS4400</td>
<td>4400</td>
<td>Asian History</td>
<td>HST History</td>
<td>3</td>
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<tr>
<td>PHY2400R</td>
<td>2400R</td>
<td>General Physics I Recitation</td>
<td>PHY Physics</td>
<td>0</td>
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</tr>
<tr>
<td>ART2330</td>
<td>2330</td>
<td>Printmaking for Non-Majors</td>
<td>ART Art</td>
<td>3</td>
<td>ST</td>
</tr>
<tr>
<td>EES6860</td>
<td>6860</td>
<td>Environ Law Scientists</td>
<td>EES Earth &amp; Environmental Sciences</td>
<td>3</td>
<td>GR</td>
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<tr>
<td>IHE7340</td>
<td>7340</td>
<td>Hum Factors Mobile Comp</td>
<td>IIE Industrial &amp; Hum Fac Engr</td>
<td>3</td>
<td>LE</td>
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<tr>
<td>ABS7602</td>
<td>7602</td>
<td>Sem Crim Just System</td>
<td>ABS Applied Behavioral Science</td>
<td>1</td>
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<tr>
<td>MP3340</td>
<td>3340</td>
<td>Documentary Hist &amp; Thy</td>
<td>MP Motion Picture</td>
<td>3</td>
<td>LE</td>
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<tr>
<td>EDS6020</td>
<td>6020</td>
<td>Lang Dev/Syst Soc Stl</td>
<td>EDS Education - Special Education</td>
<td>3</td>
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<tr>
<td>ED6480</td>
<td>6480</td>
<td>Fld Exp II: MA/Vis Arts</td>
<td>ED Education</td>
<td>1</td>
<td>GR</td>
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<tr>
<td>DAN3710</td>
<td>3710</td>
<td>Dance Kinesiology</td>
<td>DAN Dance</td>
<td>1</td>
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<tr>
<td>CEG4424</td>
<td>4424</td>
<td>Security Attacks and Defenses</td>
<td>CEG Computer Engineering</td>
<td>3</td>
<td>LE</td>
</tr>
<tr>
<td>EDL8740</td>
<td>8740</td>
<td>Sch Finance &amp; Bus Mgt</td>
<td>EDL Educational Leadership</td>
<td>3</td>
<td>GR</td>
</tr>
<tr>
<td>HUM7900</td>
<td>7900</td>
<td>Continuing Registration</td>
<td>HUM Humanities</td>
<td>1</td>
<td>IS</td>
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<tr>
<td>KNH7400</td>
<td>7400</td>
<td>Admin-Interscholastic Ath</td>
<td>KNH Kinesiology &amp; Health</td>
<td>3</td>
<td>LE</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>MGT6770</td>
<td>6770</td>
<td>Train, Develop &amp; Performance Mgt</td>
<td>MGT Management</td>
<td>This course is designed to provide an introduction to the concepts, processes, and issues associated with training and development and performance management. The course will cover planning, designing, implementing, and evaluating training programs as well as creating a direct link between employee performance and organizational objectives.</td>
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<tr>
<td>ART5150</td>
<td>5150</td>
<td>Nineteenth Century Art</td>
<td>ART Art</td>
<td>General surveys and intensive studies of the period, major movements, and artists of the time. Titles vary.</td>
<td></td>
</tr>
<tr>
<td>KNI1800B</td>
<td>1800B</td>
<td>Weight Training</td>
<td>KNI Kinesiology &amp; Health</td>
<td>Fundamental skills and knowledge of Weight Training: Women. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td></td>
</tr>
<tr>
<td>MTH7170</td>
<td>7170</td>
<td>Numerical Analysis II</td>
<td>MTH Mathematics</td>
<td>Finite difference and finite element methods for partial differential equations, including elliptic, parabolic and hyperbolic. &lt;b&gt;Department Managed Prerequisite(s): Graduate level MTH 5330 Minimum Grade of D and Graduate level MTH 6550 Minimum Grade of D&lt;/b&gt;</td>
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</tr>
<tr>
<td>KNI1400B</td>
<td>1400B</td>
<td>Lifeguard Training</td>
<td>KNI Kinesiology &amp; Health</td>
<td>Intermediate level of skills and knowledge in lifeguard training. Competency-based approach. Students should check competency levels posted in physical education building before enrolling.</td>
<td></td>
</tr>
<tr>
<td>ED4300</td>
<td>4300</td>
<td>Undergraduate Practicum: AYA</td>
<td>ED Education</td>
<td>Educators with prior teaching license(s), under the direct supervision of an experienced classroom teacher, are assigned to a school for a field experience in grades 7-12 and their concentration area.</td>
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</tr>
<tr>
<td>SOC6800</td>
<td>6800</td>
<td>Aging and HIV</td>
<td>SOC Sociology</td>
<td>Socio-historical overview of the impact of HIV/AIDS on adults ages 50 and older. &lt;b&gt;Department Managed Prerequisite(s): Graduate level SW 6620 Minimum Grade of D or Graduate level SOC 6820 Minimum Grade of D&lt;/b&gt;</td>
<td></td>
</tr>
<tr>
<td>MBA7520</td>
<td>7520</td>
<td>Intl. Mgt: Ops &amp; Environ</td>
<td>MBA MBA</td>
<td>This course surveys the practices and principles involved in managing a business across national boundaries. Emphasizes the importance of the global institutional framework including the international monetary system and foreign exchange markets. Also covers environmental constraints and how functional business disciplines are changed in a global context.</td>
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</tr>
<tr>
<td>EE6700</td>
<td>6700</td>
<td>Introduction to MEMS</td>
<td>EE Electrical Engineering</td>
<td>This course offers an overview of basic sensor technology to provide the engineering student with practical working knowledge of sensors. Course will include basic operating principles, basic electronics and measurement principles.</td>
<td></td>
</tr>
<tr>
<td>PHY7300</td>
<td>7300</td>
<td>Solid State - Structure</td>
<td>PHY Physics</td>
<td>Topics from the physics of the solid state related to structure as chosen by the instructor. These may include but are not limited to: crystallography, particle beam analysis of crystal structure, lattice dynamics, theories of specific heat and sound, defects in structures, defect dynamics, and mechanisms of mass transport.</td>
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</tr>
<tr>
<td>EDL7700</td>
<td>7700</td>
<td>Ed Lead Schl Counselors</td>
<td>EDL Educational Leadership</td>
<td>Provides foundational understandings of education in the United States from the historical, national, state, and local perspectives covering a variety of educational topics necessary for counselor leadership in today’s schools.</td>
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</tr>
<tr>
<td>ME4580</td>
<td>4580</td>
<td>Fuel Cell Sci and Tech</td>
<td>ME Mechanical and Materials Engr</td>
<td>Fundamentals, technologies, applications of various types of fuel cells, thermodynamics prediction, electrolyte conduction, electrode kinetics. Polymer electrolyte fuel cells, solid oxide fuel cell, fuel cell stack. &lt;b&gt;Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D and (Undergraduate level ME 3310 Minimum Grade of D or Undergraduate level ME 3750 Minimum Grade of D)&lt;/b&gt;</td>
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</tr>
<tr>
<td>PTX7000</td>
<td>7000</td>
<td>Biostats for Health Prof</td>
<td>PTX Pharmacology/Toxicology</td>
<td>Introduction to the basic principles and applications of statistical methods as they are applied to data arising in the health professions.</td>
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</tr>
<tr>
<td>PL56900</td>
<td>6900</td>
<td>Independent Reading</td>
<td>PL5 Political Science</td>
<td>Supervised individual readings on selected topics.</td>
<td></td>
</tr>
<tr>
<td>HPR2810</td>
<td>2810</td>
<td>Physical &amp; 5th Ed - MCE</td>
<td>HPR Health Phy Educ &amp; Recreation</td>
<td>Curriculum teaching methods and materials, for 4th -9th grades, promoting a positive lifestyle. Comprehensive school health program, activity for optimal growth and controversial issues will be covered.</td>
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</tr>
<tr>
<td>PLS6823</td>
<td>6823</td>
<td>Campaign Internship</td>
<td>PLS Political Science</td>
<td>Volunteer for the candidate of one's choice in a local, state, or federal election. Work 170 hours over the semester, adjusting hours to account for the campaign calendar.</td>
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</tr>
<tr>
<td>ME5360</td>
<td>5360</td>
<td>Heat Transfer</td>
<td>ME Mechanical and Materials Engr</td>
<td>Study of the movement of energy due to a temperature difference. The three modes of heat transfer are investigated: conduction, convection, and radiation. Detailed look at heat equation. &lt;b&gt;Department Managed Prerequisite(s): (Undergraduate level ME 1020 Minimum Grade of D and Undergraduate level ME 3350 Minimum Grade of D) or (Graduate level ME 5350 Minimum Grade of D and Undergraduate level MTH 2350 Minimum Grade of D)&lt;/b&gt;</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Credits</td>
<td>Department</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>Spring 2021</td>
<td>PLS3460</td>
<td>3.00</td>
<td>Industrial &amp; Political Science</td>
<td>Methods of employment, training, compensation, and employee relations in various levels of service. Examines organizations of public employees.</td>
<td>UG LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE7580</td>
<td>3.00</td>
<td>Electrical Engineering</td>
<td>Introduction to the techniques, limitations, and problems in the design of CMOS analog integrated circuits. Topics include CMOS analog circuit modeling and device characterization, analog CMOS subcircuits, CMOS amplifiers, CMOS comparators, and CMOS Op Amps. CMOS Analog to Digital Converters, and CMOS Digital to Analog Converters, and Switched Capacitor Circuits.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2940</td>
<td>3.00</td>
<td>Pharmacology/Toxicology</td>
<td>The aim of this course is to give an overview of neuropharmacology that includes basic principles of drug action in neurons, a description of major neurotransmitter systems in the brain and their pharmacology, with examples of their clinical and therapeutic relevance. The emphasis is on mental illness. The course is designed for graduate students in medicine and biomedical sciences.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NEU6400</td>
<td>3.00</td>
<td>Neuroscience</td>
<td>Overview of the processes of neural differentiation, migration, synapse formation, and circuit refinement involved in neural development.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7360</td>
<td>3.00</td>
<td>Industrial &amp; Human Fac Engr</td>
<td>Students will acquire knowledge and experience that will aid them in developing quantitative means of modeling, analyzing, and predicting the performance of human-machine systems. Topics include human-system integration, automation, cognitive engineering, discrete control modeling, cognitive field research, information processing, decision theory, heuristics and biases, and expert and analytical reasoning.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY2940</td>
<td>3.00</td>
<td>Psychology</td>
<td>Introduction to the techniques, limitations, and problems in the design of CMOS analog integrated circuits. Topics include CMOS analog circuit modeling and device characterization, analog CMOS subcircuits, CMOS amplifiers, CMOS comparators, and CMOS Op Amps. CMOS Analog to Digital Converters, and CMOS Digital to Analog Converters, and Switched Capacitor Circuits.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NEU6400</td>
<td>3.00</td>
<td>Neuroscience</td>
<td>Overview of the processes of neural differentiation, migration, synapse formation, and circuit refinement involved in neural development.</td>
<td>GR LE Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>IHE7360</td>
<td>3.00</td>
<td>Industrial &amp; Human Fac Engr</td>
<td>Students will acquire knowledge and experience that will aid them in developing quantitative means of modeling, analyzing, and predicting the performance of human-machine systems. Topics include human-system integration, automation, cognitive engineering, discrete control modeling, cognitive field research, information processing, decision theory, heuristics and biases, and expert and analytical reasoning.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>NEU6400</td>
<td>3.00</td>
<td>Neuroscience</td>
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<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>IHE7360</td>
<td>3.00</td>
<td>Industrial &amp; Human Fac Engr</td>
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<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>NEU6400</td>
<td>3.00</td>
<td>Neuroscience</td>
<td>Overview of the processes of neural differentiation, migration, synapse formation, and circuit refinement involved in neural development.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>IHE7360</td>
<td>3.00</td>
<td>Industrial &amp; Human Fac Engr</td>
<td>Students will acquire knowledge and experience that will aid them in developing quantitative means of modeling, analyzing, and predicting the performance of human-machine systems. Topics include human-system integration, automation, cognitive engineering, discrete control modeling, cognitive field research, information processing, decision theory, heuristics and biases, and expert and analytical reasoning.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>NEU6400</td>
<td>3.00</td>
<td>Neuroscience</td>
<td>Overview of the processes of neural differentiation, migration, synapse formation, and circuit refinement involved in neural development.</td>
<td>GR LE Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>IHE7360</td>
<td>3.00</td>
<td>Industrial &amp; Human Fac Engr</td>
<td>Students will acquire knowledge and experience that will aid them in developing quantitative means of modeling, analyzing, and predicting the performance of human-machine systems. Topics include human-system integration, automation, cognitive engineering, discrete control modeling, cognitive field research, information processing, decision theory, heuristics and biases, and expert and analytical reasoning.</td>
<td>GR LE Lecture</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Description</td>
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<tr>
<td>ANT3100</td>
<td>Human Structure Func I</td>
<td>3</td>
<td>Analytical terminology and the characteristics, maintenance and basis of life. Structure of cells emphasizing function. Body systems including integumentary system, skeletal system and articulations, nervous system, special senses and muscular system. Laboratory exercises use human donors.</td>
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<tr>
<td>EE7420</td>
<td>Power Electronics II</td>
<td>4</td>
<td>Modeling, linearization, and control of open-loop power stages of PWM DC-DC power converters, voltage-mode and current mode control techniques of PWM power converters, DC and AC, steady-state, and transient performance of open-loop and closed-loop power converters. Department Managed Prerequisite(s): Graduate level EE 5310 Minimum Grade of D.</td>
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<tr>
<td>FR3310</td>
<td>Survey of French Literat</td>
<td>3</td>
<td>Middle Ages to the present. An overview of trends, thought, and style. Taught in French. Department Managed Prerequisite(s): (Undergraduate level FR 3210 Minimum Grade of D or Undergraduate level FR 3220 Minimum Grade of D).</td>
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<tr>
<td>CEG4326</td>
<td>IC Hardware Security and Trust</td>
<td>3</td>
<td>Analyze hardware security/trust and be able to implement various countermeasures to improve trust for hardware IC systems. Topics include IC design flow/lifecycle, trust issues at each stage of the IC lifecycle, attack methodologies that threaten HW IC systems, countermeasures to improve trust for HW IC systems, improving trust for both ASIC and FPGA based systems.</td>
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<tr>
<td>EXB6530L</td>
<td>Exercise Physiology Lab</td>
<td>0</td>
<td>Required laboratory for BIO 4430.</td>
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<tr>
<td>REL5610</td>
<td>Religion in America</td>
<td>3</td>
<td>Historical exploration of the variety of forms of religious expression in America and the role of religion in American life.</td>
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<tr>
<td>HLT7121</td>
<td>Hmn Gen for Hlth Profts</td>
<td>2</td>
<td>This course focuses on the advanced study of human genetics and genomics with implications for health care professionals. Description of mechanisms of inheritance and genetic diseases are described so that health professionals can recognize possible genetic or genomic abnormalities. They can make appropriate referrals, participate in genetic counseling and consider ethical and legal implications.</td>
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<tr>
<td>AFS4030</td>
<td>History of Ideas of Race</td>
<td>3</td>
<td>Examination of the development of various ideas of race from 1600-present. Integrated writing course.</td>
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<tr>
<td>ECE4020</td>
<td>ECE-Gen Lang Arts &amp; SS</td>
<td>3</td>
<td>Pedagogy and content knowledge of content area reading through the study of grades 4 and 5 social studies.</td>
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<tr>
<td>BME7112</td>
<td>Computed Tomography</td>
<td>3</td>
<td>Principles of generating images from projections. Discussion of specific problems like beam hardening, scatter, metal artefacts, etc. Focus on quantitative imaging in medical applications. Department Managed Prerequisite(s): Undergraduate level BME 4702 Minimum Grade of D or Graduate level BME 6702 Minimum Grade of D.</td>
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<tr>
<td>PLS4330</td>
<td>Public Opinion</td>
<td>3</td>
<td>Opinion formation in American politics; relationship of opinion to public policy; voting behavior in American elections; role of mass media and political interest groups in policy process; and development of political attitudes and values.</td>
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<tr>
<td>ISE2211</td>
<td>Statistics for Engineers</td>
<td>3</td>
<td>Application of statistical techniques to engineering testing, development, and manufacturing. Basic principles of data collection and descriptive statistics; axioms of probability; discrete/continuous random variables and probability distributions; sampling theory; statistical inference; correlation/regression; analysis of variance.</td>
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<tr>
<td>HST7000</td>
<td>Historical Methods</td>
<td>3</td>
<td>Intensive training in the research methods and materials of history.</td>
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<tr>
<td>SW2720</td>
<td>Multicultural Competence</td>
<td>3</td>
<td>This course provides an introduction to the methods of inquiry in the social sciences used to develop the knowledge and skills required to work and relate in a multicultural world. Content covers the historical development of discrimination in the U.S. and the need for multicultural competency to be an engaged and informed citizen in a democratic society. Integrated Writing course.</td>
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<tr>
<td>TH3810</td>
<td>Theatre</td>
<td>3</td>
<td>Exploration of a variety of later theatrical texts and pertinent history. Integrated Writing course.</td>
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<tr>
<td>ED7820</td>
<td>Literacy Inquiry Project</td>
<td>1</td>
<td>Continuation of the literacy research from ED 7800. Candidates will complete the following components: data collection, transcription, analysis, dissemination, limitations, and implications for the Master’s Research Project. This course involves supervision.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Type</td>
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<tr>
<td>ARA2020</td>
<td>Intermediate Arabic II</td>
<td>2020</td>
<td>ARA</td>
<td>Arabic</td>
<td>3</td>
</tr>
<tr>
<td>EGR9900</td>
<td>Special Topics in EGR</td>
<td>4990</td>
<td>EGR</td>
<td>Engineering</td>
<td>1</td>
</tr>
<tr>
<td>SC7870</td>
<td>SC Pj Mgt &amp; Transform</td>
<td>7870</td>
<td>SCM</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>REL5100</td>
<td>Topics in Judaism</td>
<td>5100</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td>DAN1080</td>
<td>Ballet for the Actor II</td>
<td>1080</td>
<td>DAN</td>
<td>Dance</td>
<td>2</td>
</tr>
<tr>
<td>EGR7400</td>
<td>MST Project Development</td>
<td>7400</td>
<td>EGR</td>
<td>Education</td>
<td>1</td>
</tr>
<tr>
<td>DOS9070</td>
<td>Multivariate Statistics</td>
<td>9070</td>
<td>DOS</td>
<td>Doctor Org Studies</td>
<td>3</td>
</tr>
<tr>
<td>PTX4990</td>
<td>Undergraduate Research</td>
<td>4990</td>
<td>PTX</td>
<td>Pharmacology/Toxicology</td>
<td>1</td>
</tr>
<tr>
<td>COM4620</td>
<td>Mass Media Law</td>
<td>4620</td>
<td>COM</td>
<td>Communication</td>
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<td>Techniques of Counseling</td>
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<td>MUS6810</td>
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<td>Adv Studies in Spec Subj</td>
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<td>ECE4400</td>
<td>4400</td>
<td>Assess Methods in ECE</td>
<td>Varying assessment techniques and strategies, both formal and informal, utilized in early childhood education. Various forms of assessments used to assess young students' learning in order to plan and implement effective lessons.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO4450</td>
<td>4450</td>
<td>Amazon Expedition</td>
<td>Classroom instruction followed by travel to Peruvian Amazon, viewing primary and secondary rainforest, tropical rivers, and wildlife.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>POR1110</td>
<td>1110</td>
<td>Essentials of Portuguese</td>
<td>Introduction to Portuguese with an emphasis on speaking the language.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>CS4990</td>
<td>4990</td>
<td>Undergraduate Thesis</td>
<td>Completion of a computer science research project. Writing and defending a thesis that describes the research and summarizes the results.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>AES4320</td>
<td>4320</td>
<td>SCL Lab</td>
<td>Preparation for active duty. Cadets take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals to a level commensurate to entry into the active duty Air Force. Requires participation in two weekly physical training sessions.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BMS7860</td>
<td>7860</td>
<td>Lean Proc Improv for Eng</td>
<td>Introduction to the practical application of lean manufacturing and Kaizen techniques in multiple environments. Includes case studies and team projects based on real world problems and solutions.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ME6190</td>
<td>6190</td>
<td>Intro to Egr Lubrication</td>
<td>Define various lubrication regimes where mechanical elements in automotive, aerospace, heavy machinery, wind turbine applications operate; introduce surface topography metrics &amp; parameters; describe lubricant properties including viscosity &amp; density dependences on pressure as well as temperature, non- &amp; Newtonian behavior; derive Reynolds equation; solve governing equations for elasto- &amp; hydrodynamic lubrication; introduce egr approaches for lubrication performance assessment in machine elements.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHY4470</td>
<td>4470</td>
<td>Dev of Ideas Phy Sci</td>
<td>Acquaints physics and chemistry teachers with the construction of knowledge in physical science and its implications to science instruction. Focuses on the processes that lead to the laws of physics and chemistry and how this knowledge of science history can be used to design physics and chemistry lessons.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>HST8680</td>
<td>6860</td>
<td>History and New Media</td>
<td>Examines the impact of new media on access to primary sources, public programs, history education, scholarship, and the ways in which historians engage with each other.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>EE4700</td>
<td>4700</td>
<td>Introduction to MEMS</td>
<td>Overview of basic sensor technology including operating principles, electronics and measurement principles.</td>
<td>UG</td>
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<tr>
<td>Spring 2021</td>
<td>PSY8730</td>
<td>8730</td>
<td>Training in Organization</td>
<td>This course will address theories, issues, and research in training. The purpose will be to discuss factors and processes involved in training needs assessment, design, and evaluation as well as learning processes, individual difference and motivational factors affecting training, and selected special topics.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST1100</td>
<td>1100</td>
<td>West. Civ. to 1500</td>
<td>Examination of the character of the pre-modern world from prehistory through the 15th century with special attention to those aspects of ancient and medieval life that had the greatest effect on the development of Western society, politics, and culture.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SW6620</td>
<td>6620</td>
<td>Social Gerontology I</td>
<td>Study of the social aspects of aging, the needs of the aging population, and society's response to those needs. A life course perspective that incorporates cultural, economic, historical and structural contexts provides the framework for examining aging-related issues, particularly in regards to the impact on quality of life for older adults.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6450</td>
<td>6450</td>
<td>Petroleum Geology</td>
<td>The course will cover background issues such as the history and legal aspects of the business (lease acquisition, assignment of working interests, overriding royalties). Most of the course will focus on the basics of petroleum geology, including oil and gas exploration techniques, geology of oil producing regions, well drilling, completion, well-log interpretation, enhanced oil and gas recovery, CO2 sequestration, production equipment, oil and gas sales, and marketing.</td>
<td>GR</td>
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<tr>
<td>Spring 2021</td>
<td>URS6950</td>
<td>6950</td>
<td>MPA Internship</td>
<td>A one semester supervised internship of at least 300 hours in a selected public, nonprofit or public-service private agency. Arranged in consultation with student's adviser or intern director.</td>
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<td>Biochem &amp; Molecular Biology</td>
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<td>Urban Affairs</td>
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<td>SOC6650</td>
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<td>Gbl Sexualities &amp;Human Rights</td>
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<td>Sociology</td>
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<td>Electrical Engineering</td>
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<td>ENG</td>
<td>English</td>
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<td>PN6550</td>
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<td>Neuron-Glia Biology &amp; Disease</td>
<td>PN</td>
<td>Physiology &amp; Neuroscience</td>
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<td>Sem: Literary Problems</td>
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<td>Industrial &amp; Systems Engr</td>
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<td>Spring 21</td>
<td>PHY6610</td>
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<td>Intro to Quantum Mechanics II</td>
<td>PHY</td>
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<td>Spring 21</td>
<td>KNH1160B</td>
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<td>Dance: Latin</td>
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<td>Rehab Services for Vets</td>
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<td>Spring 21</td>
<td>BIO3450</td>
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<td>Concepts Bio I ECE/MCE</td>
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<td>Spring 21</td>
<td>BME6730</td>
<td>3</td>
<td>Neurophotonic &amp; Optical BrainMap</td>
<td>BME</td>
<td>Biomedical Engineering</td>
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<td>Spring 21</td>
<td>ED6800</td>
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<td>Class Manage &amp; Organ</td>
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<td>Instr Analysis Lab</td>
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<td>Political Science</td>
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<td>Spring 21</td>
<td>TH4410</td>
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<td>Movement IV</td>
<td>TH</td>
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**Notes:**
- Spring 2021 CRNs are for reference only and may not be the actual CRNs for the given courses.
- The course codes correspond to specific departments and offerings.
- The units listed are the number of credits associated with each course.
- The types of course sections include Lecture, Lab, and combination lectures and labs, depending on the course.
- Co-requisites are indicated if applicable.
- Grades are marked if a specific grading system is provided, e.g., GR (grade requirement) or LB (lab requirement).
- Course descriptions and prerequisites vary, focusing on the core content and requirements.

**Additional Information:**
- The course on Bio I at ECE/MCE explores biological concepts for Elementary and Middle School Education Majors.
- The lecture on Human Biomechanics I involves the study of human movement, biomechanics, and their applications.
- The course on Quantum Mechanics II delves into advanced quantum mechanics and its applications.
- The Dance: Latin course focuses on the fundamentals of dance and its cultural significance.

**Course Focuses:**
- **Greek Prose Narrative:** Exposes students to various Greek prose narratives, authors, and their social and cultural contexts.
- **Quantum Mechanics:** Provides a deep dive into quantum mechanics, applications, and advanced problem-solving strategies.
- **Biomechanics:** Emphasizes the application of biomechanics principles in human movement and activity.
- **Dance and Movement Studies:** Combines theoretical understanding with practical application in dance and movement studies.

**Special Notes:**
- Some courses are tailored for specific audiences, such as veterans or cadets.
- Course offerings may include specialized labs, field trips, and performances, depending on the program's objectives.
- The course on Biomedical Engineering integrates understanding brain function and developing effective therapeutics.
<table>
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<tr>
<th>Code</th>
<th>Start</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>BIO4410</td>
<td>Spring 21</td>
<td>Behavioral Ecology</td>
<td>4410</td>
<td>How and why animals behave the way they do. How an individuals behavior contributes to its survival and reproductive success. Environmental influences on optimal behavioral strategies. Theory is emphasized, but real behaviors will also be examined as case studies.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>PSY6740</td>
<td>Spring 21</td>
<td>Space and Time Capstone</td>
<td>6740</td>
<td>Communication-intensive seminar integrating knowledge on space and time.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>TH2340</td>
<td>Spring 21</td>
<td>Speech I</td>
<td>2540</td>
<td>Techniques in voice and speech to strengthen and expand the student's instrument and skills.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/ Lab Combination</td>
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<tr>
<td>PLS5250</td>
<td>Spring 21</td>
<td>African Am Politics</td>
<td>5250</td>
<td>Explores what makes African American politics distinctive from American politics and the prerequisites for effective political and economic leadership in the black community. Major theme is notion of black power.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>KNH1140B</td>
<td>Spring 21</td>
<td>Dance: Ballroom</td>
<td>1140B</td>
<td>Fundamental skills and knowledge of Dance: Ballroom. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>ENG2050</td>
<td>Spring 21</td>
<td>African-American Lit</td>
<td>2050</td>
<td>Focuses on the oral and written African-American literary tradition in a variety of genres from the 18th century to the present. Integrated Writing course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>URS7090</td>
<td>Spring 21</td>
<td>MPA Thesis</td>
<td>7090</td>
<td>Under the supervision of a thesis committee and chair, students select a public administration problem, prepare a proposal detailing the research question, complete the research, write their thesis with full documentation and defend their work before the committee.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>ATH5010</td>
<td>Spring 21</td>
<td>Cultures of Africa</td>
<td>5010</td>
<td>An introduction to the diverse, complex and fascinating peoples of sub-Saharan Africa.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>KNH1020</td>
<td>Spring 21</td>
<td>Aerobic Conditioning</td>
<td>1020</td>
<td>Fundamental skills and knowledge of Aerobic Conditioning. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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<tr>
<td>PSI9160</td>
<td>Spring 21</td>
<td>Forensic Assessment</td>
<td>9160</td>
<td>Focuses on the interface between psychological assessment and the legal arena.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>HPR3850</td>
<td>Spring 21</td>
<td>Teaching Elementary PE</td>
<td>3850</td>
<td>Applies teaching and management strategies that have been linked to student learning, the design of instructional materials and techniques, and strategies working with a diversity of learners in grades K-5.</td>
<td>UG</td>
<td>LE</td>
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<tr>
<td>MI8440</td>
<td>Spring 21</td>
<td>Sem Topics - MI Microbiology &amp; Immunology 2</td>
<td>8440</td>
<td>Molecular virology, viral oncology, immunology, transplantation immunology, tumor immunology, immune regulation, infection and immunity.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
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<tr>
<td>DS7950</td>
<td>Spring 21</td>
<td>MSDS Thesis Research</td>
<td>7950</td>
<td>Students in DS 7950 will conduct a research project that involves developing a contemporary research question followed by a combination of literature review; experimental design; collection, curation, and analysis of data; and critical evaluation of outcomes. The final product of the course is a thesis document of archival quality. A Master's Thesis should constitute an original contribution to the body of knowledge within the discipline.</td>
<td>GR</td>
<td>IS</td>
<td>Independent Study</td>
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<tr>
<td>ED6540</td>
<td>Spring 21</td>
<td>AYA Int Pt II: Std T ILA</td>
<td>6540</td>
<td>Candidates, under the direct supervision of an experienced classroom teacher, are assigned to a school for intensive teaching experience in grades 7-12 in Integrated Language Arts.</td>
<td>GR</td>
<td>IN</td>
<td>Internship</td>
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</table>
| CS3700     | Spring 21 | Intro to Database & Modeling                | 3700    | Relational client server database design and access techniques. Includes modeling and database design and writing SQL and PL/SQL statements.  
Department Managed Prerequisite(s): Undergraduate level CS 1180 Minimum Grade of D or Undergraduate level CS 1160 Minimum Grade of D or Undergraduate level CEG 2170 Minimum Grade of D  
Prerequisites for effective political and economic leadership in the black community. Major theme is notion of black power. | UG    | LE    | Lecture  |
<p>| KNH1120B   | Spring 21 | Canoeing                                    | 1120B   | Fundamental skills and knowledge of Canoeing. Competency-based approach. Course may accommodate disabled students when appropriate. This course has a fee that is non-refundable once the term begins. | UG    | LB    | Lab     |
| MTH4570    | Spring 21 | Combinatorics and Graphs                    | 4570    | Permutations, combinatorics, generating functions, recurrence relations, and PolyA's theory of counting; methods, results, and algorithms of graph theory, with emphasis on graphs as mathematical models applicable to organizational and industrial situations. | UG    | LE    | Lecture  |
| ED4060     | Spring 21 | Reading and Literacy I                      | 4060    | Introduction to the content knowledge of the structure of literacy and reading/writing instruction. Candidates explore instructional strategies for reading and writing and the theory that supports scientifically based instruction. | UG    | LE    | Lecture  |
| RHB8670    | Spring 21 | Rehab Couns Internship                      | 8670    | Opportunity to utilize all skills, techniques, and competencies acquired in previous coursework while delivering rehabilitation counseling services to consumers. The internship experience is determined individually between the student, university supervisor and site supervisor. | GR    | IN    | Internship |
| PLS6590    | Spring 21 | Contemporary Brazil                         | 6590    | Introduction to Brazilian politics, society and economy. Topics include Brazil's political and economic liberalization, its international relations, gender and race relations, and the environment. | GR    | LE    | Lecture  |</p>
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<td>Planning for SCM</td>
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<td>RHB3820</td>
<td>3820</td>
<td>Rehabilitation 3 Focuses on disability culture, justice, and history, including community access, independent living/self-determination, and inclusion. Examines various disability policy frameworks and applications, person-centered perspectives on delivery of services and supports, and methods of facilitating change.</td>
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<td>BIO4440L</td>
<td>4440L</td>
<td>Plant Physiology Laboratory BIO Biology 0 Required laboratory for BIO 4440.</td>
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<td>STT6610</td>
<td>6610</td>
<td>Theory of Statistics I STT Statistics 4 Probability, random variables, density and distribution functions, expectation, moment generating functions, special discrete and continuous distributions; joint, marginal and conditional distributions; independence, properties of expected values, functions of random variables, order statistics, transformations, limiting distributions, convergence in distribution, central limit theorem, statistics and sampling distributions.</td>
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<td>Spring 2021</td>
<td>PSI9990</td>
<td>9990</td>
<td>Internship PSI Professional Psychology 1 Capstone clinical experience for the Psy.D. degree, completed under supervision by a licensed psychologist.</td>
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<tr>
<td>Spring 2021</td>
<td>MUS1980</td>
<td>1980</td>
<td>Freshman Music Seminar MUS Music 0 7-week seminar which will address topics important to student success in the university system and in working towards a successful career in music.</td>
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<td>Spring 2021</td>
<td>PSY5610</td>
<td>5610</td>
<td>Conditioning &amp; Learning PSY Psychology 3 Introduction to experimental findings and contemporary theories of conditioning, learning, and motivation.</td>
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<tr>
<td>Spring 2021</td>
<td>ENG1010</td>
<td>1010</td>
<td>Basic Acad Spk Lstn ESL ENG English 3 Basic course in spoken English, both production and comprehension. Open only to non-native speakers of English.</td>
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<td>Spring 2021</td>
<td>TH2390</td>
<td>2390</td>
<td>Movement I TH Theatre 2 Continued study of physical alignment, improvisation, warm-up methods, and exploration of movement dynamics as they relate to acting. A range of established disciplines will be incorporated in this study.</td>
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<tr>
<td>Spring 2021</td>
<td>ANT2100L</td>
<td>2100L</td>
<td>Human Anatomy &amp; Phys I Lab ANT Anatomy 0 Required laboratory for ANT 2100.</td>
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<tr>
<td>Spring 2021</td>
<td>HED3350</td>
<td>3350</td>
<td>Health Communications HED Health Education 3 Explores the applications of social marketing and communication theory as they relate to the development of strategies designed to enhance health education and promotion programs. Students will be introduced to basic perspective of public health education, particularly the fundamental skills of communicating health information.</td>
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<tr>
<td>Spring 2021</td>
<td>MIL1020</td>
<td>1020</td>
<td>Intro to Tactical Ldrship MIL Military Science 3 Overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Explores dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercise. Contracted students are required to participate in two-hour lab, physical fitness program and weekend training exercises.</td>
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<tr>
<td>Spring 2021</td>
<td>CS7820</td>
<td>7820</td>
<td>Semantic Web CS Computer Science 3 This course is about the Semantic Web, a key enabler of Web 3.0. It goes beyond the recent language standards of RDF and OWL to understand new techniques, technologies and algorithms for making a broad variety of data meaningful and more amenable to processing by humans and machines (on the Web, as Web services, generated on social networks or generated by sensors and mobile devices). Topics covered include research in semantic search, browsing, integration, analysis and discovery. Department Managed Prerequisite(s): Undergraduate level MTH 2320 Minimum Grade of D&gt;</td>
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<td>SCM7960</td>
<td>7960</td>
<td>Strategic Sourcing SCM Supply Chain Management 3 Strategic sourcing, including the tactical and functional operations of purchasing as well as proactive establishment, management, and optimization of the firm's supply base of goods and services and to improve supply chain performance. This course has a fee that is non-refundable once the term begins.</td>
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<td>Spring 2021</td>
<td>ACC7750</td>
<td>7750</td>
<td>Accounting Internship ACC Accountancy 3 One semester, faculty-supervised internship in the area of public, industrial, or not-for-profit accounting. Course requires written reports. Students may register for internship once during their graduate programs. May be taken for letter grade of pass/unsatisfactory.</td>
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<td>Spring 2021</td>
<td>CEG7920</td>
<td>7920</td>
<td>Independent Study in CEG CEG Computer Engineering 1 Independent study in computer engineering</td>
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<td>Course Code</td>
<td>Credits</td>
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<tr>
<td>GE06100</td>
<td>6100</td>
<td>Remote Sensing</td>
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<tr>
<td>ME4830</td>
<td>4830</td>
<td>Comp. Materials Science</td>
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<td>ME6490</td>
<td>6490</td>
<td>Aerospace Structures</td>
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<td>ATR2610</td>
<td>2610</td>
<td>Intro Allied HealthCarePro</td>
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<td>IT2400</td>
<td>2400</td>
<td>Employ Portfolio Dev</td>
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<td>PN6990</td>
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<td>Lab Rotation</td>
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<td>CS3900</td>
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<td>Spec Topics in Comp Sci</td>
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<td>IIE6130</td>
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<td>Statistics for EGR</td>
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<td>AES4340</td>
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<td>SCL Lab</td>
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<tr>
<td>EE7020</td>
<td>7020</td>
<td>Modern Control</td>
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<td>CHM6680</td>
<td>6680</td>
<td>Exp Nanomaterials</td>
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<td>NUR4140</td>
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<td>Nursing Elective</td>
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<td>RUS1010</td>
<td>1010</td>
<td>Beginning Russian I</td>
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<td>MLB4710</td>
<td>4710</td>
<td>Basic Diagnostic Micro</td>
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<td>ECE3210</td>
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<td>ECE Field Experience I</td>
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<tr>
<td>ECE</td>
<td>3210</td>
<td>ECE Field Experience I</td>
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<tr>
<td>MUE4770</td>
<td>4770</td>
<td>Chamber Orchestra</td>
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<tr>
<td>PSY3600</td>
<td>3600</td>
<td>Human Factors Psychology</td>
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<tr>
<td>MUS1110</td>
<td>1110</td>
<td>Vocal Technique and Diction</td>
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</table>

**Survey of remote sensing spatial analysis. Applications, technology, and spatial measurements used to interpret remote sensed images.**

**This course covers basic theories, methods, and algorithms of atomistic computer simulations of materials. Classical, semi-empirical, and ab initio quantum mechanical methods are explained.**

**Analysis and design of flight structures. Stress, deformation, and stability analysis of aerospace structures. Thin-walled members bending, torsion, and shear stresses calculation in multi-cell structures. Buckling of thin plates.**

**History of health care delivery systems, current systems, services, trends and challenges, health care careers, and ethical and legal responsibilities. Foundational concepts of patient care including human growth and development, basic human needs, patient rights and responsibilities, provider and patient safety, communication skills, and computer literacy. Professionalism and securing and maintaining employment.**

**Development of effective job strategies including application forms, cover letters, and resumes.**

**Preparation for progression active duty. Cadets take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals to a level commensurate to entry into the active duty Air Force. Requires participation in two weekly physical training sessions.**

**State variable representations of continuous and discrete systems. Linear vector spaces and similarity transformations; eigen-analysis, time and transform domain solutions of linear state equations; controllability, observability, and stability of linear systems.**

**Department Managed Prerequisite(s): Undergraduate level ME 2700 Minimum Grade of D</b>**

**Department Managed Prerequisite(s): Undergraduate level EE 4310 Minimum Grade of D and Undergraduate level EE 4310L Minimum Grade of D or (Graduate level EE 6130 Minimum Grade of D and Graduate level EE 6130L Minimum Grade of D)</b>**

**Focus on analysis techniques for multiple variables, including ANOVA and multiple regression, as applied to engineering testing, development, and manufacturing. Process analysis and improvement techniques presented along with tools for reliability analysis.**

**Preparation for progression active duty. Cadets take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals to a level commensurate to entry into the active duty Air Force. Requires participation in two weekly physical training sessions.**

**State variable representations of continuous and discrete systems. Linear vector spaces and similarity transformations; eigen-analysis, time and transform domain solutions of linear state equations; controllability, observability, and stability of linear systems.**

**Department Managed Prerequisite(s): Undergraduate level EE 4310 Minimum Grade of D and Undergraduate level EE 4310L Minimum Grade of D or (Graduate level EE 6130 Minimum Grade of D and Graduate level EE 6130L Minimum Grade of D)</b>**

**This course will provide a series of laboratory experiments similar to the state-of-the-art R&D in nanotechnology and nanoscience. The experiments include 1) fabrication of nanomaterials such as metal nanoparticles and graphene nanoplatelets; 2) characterization of physical and chemical properties by using techniques such as Raman spectroscopy, atomic force microscopy, terahertz spectroscopy, electrochemical analyses etc; and 3) computational modeling of nanoscale physical phenomena.**

**Communication introduction into Russian language and culture. Study of vocabulary and structure of the Russian language, practice in speaking, listening, reading, and writing. Taught in Russian.**

**Study of media composition and selection, biochemical techniques used to identify bacteria and related physiology, antibiotic susceptibility of bacteria, and discussion and identification of parasites.**

**Candidates, mentored by an early childhood educator, assist in the planning, organizing, delivering, and assessing of instruction in a 1st-3rd grade setting applying pedagogical content knowledge from early childhood methods courses.**

**Instrumental ensemble, consisting primarily of strings and varying combinations of wind and percussion instruments, devoted to the study and performance of music written for that medium. Audition required.**

**Introduction to the study of human factors in the design and operation of machine systems.**

**Vocal English and Italian diction taught with an emphasis on the IPA phonetic language. Discussion and development of vocal technique, terminology, and anatomy.**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Year</th>
<th>Delivery</th>
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<tbody>
<tr>
<td>COM2560</td>
<td>2560</td>
<td>Basic Media Writing</td>
<td>COM</td>
<td>Introduction to writing for media. Includes structure and organization of media copy. Requires reporting in the field. Integrated Writing course.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>ME7160</td>
<td>7160</td>
<td>Nonlinear Dynamics &amp; Vib</td>
<td>ME</td>
<td>The behavior of nonlinear mechanical systems is analyzed with numerical, symbolic, graphic, and analytical methods. Equal emphasis is placed on understanding nonlinear effects and methods of analysis. Department Managed Prerequisite(s): Undergraduate level ME 4210 Minimum Grade of D or Graduate level ME 6210 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>COM3680</td>
<td>3680</td>
<td>Visual Communication</td>
<td>COM</td>
<td>Theoretical and practical foundation in the creation of visuals for multi-media projects suitable for publication in mass media. Department Managed Prerequisite(s): Undergraduate level COM 3660 Minimum Grade of D and Undergraduate level COM 4110 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>PLS3410</td>
<td>3410</td>
<td>Fund Crim Investigation</td>
<td>PLS</td>
<td>Survey of investigative techniques focusing on specific problems and crimes to illustrate proper methods and procedures of criminal investigations. Department Managed Prerequisite(s): Undergraduate level PPL 2640 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>EED3500</td>
<td>3500</td>
<td>Fans, Comm, &amp; Schools</td>
<td>EED</td>
<td>Educators collaborating with families and diverse backgrounds in the care and education of children; building curriculum that addresses the needs of English Language Learners. Department Managed Prerequisite(s): Undergraduate level EED 2510 Minimum Grade of D and Graduate level EED 4510 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>MUA2410</td>
<td>2410</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music. Department Managed Prerequisite(s): Undergraduate level MUA 1210 Minimum Grade of D.</td>
<td>2021</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ME7210</td>
<td>7210</td>
<td>Comp Mths Stret Ctrl Dynam</td>
<td>ME</td>
<td>Vibration of discrete and continuous systems. Computational methods for the eigenvalue problem. Large-dimensional systems. Approximate methods for continuous systems. Substructure synthesis. Response of vibrating systems. 3 hours lecture, 2 hours lab. Department Managed Prerequisite(s): Graduate level ME 6210 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>ART6070</td>
<td>6070</td>
<td>Studies in Printmaking</td>
<td>ART</td>
<td>Provides opportunities to explore special problems and approaches to printmaking including cross-media and interdisciplinary studies. Titles vary. Department Managed Prerequisite(s): Undergraduate level ART 2410 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>PPH7920</td>
<td>7920</td>
<td>Special Topics in PH</td>
<td>PPH</td>
<td>This course enables students to work with faculty to address current topics in public health. Topics vary. Department Managed Prerequisite(s): Undergraduate level PPH 2640 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>CNL6210</td>
<td>6210</td>
<td>Crisis Counseling</td>
<td>CNL</td>
<td>Introduces students to the background, theory, practice, and needs of crisis intervention within the helping professions. A variety of crisis intervention models are explored, as are the various community resources available to the crisis intervention worker. Department Managed Prerequisite(s): Undergraduate level CNL 2210 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>EC4200</td>
<td>4200</td>
<td>Law and Economics</td>
<td>EC</td>
<td>Economic analysis of the law and legal institutions. Department Managed Prerequisite(s): Undergraduate level EC 2200 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>SW7230</td>
<td>7230</td>
<td>SW Assessment &amp; DSM</td>
<td>SW</td>
<td>Teaches advanced generalist social work direct practice skills with individuals, families, and small groups. Skills applied during following stages of social work intervention: Engagement, Assessment, Intervention, and Evaluation. Content includes accurate application of DSM and other clinical assessment tools, and application of social work clinical treatment models. Department Managed Prerequisite(s): Graduate level SW 6150 Minimum Grade of D and Graduate level SW 6170 Minimum Grade of D and Graduate level SW 6210 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>CHM4720</td>
<td>4720</td>
<td>Chemical Crystallography</td>
<td>CHM</td>
<td>Methodology and techniques in the determination of crystal and molecular structures using single-crystal x-ray diffraction. Department Managed Prerequisite(s): Undergraduate level CHM 3410 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>BMS7120</td>
<td>7120</td>
<td>Cont Control Systems</td>
<td>BMS</td>
<td>Introductory course providing students with a general control background. Major topics include block diagrams and signal-flow graphs, electromechanical modeling, time response, root locus, and design of PID controllers. Department Managed Prerequisite(s): Undergraduate level BMS 2510 Minimum Grade of D and Graduate level BMS 4510 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>PSY3930</td>
<td>3930</td>
<td>Beh Neuroscience Methods</td>
<td>PSY</td>
<td>Overview of methods used in behavioral neuroscience. Includes neuroanatomical dissections, student presentations, animal testing, and manuscript preparation. Department Managed Prerequisite(s): Undergraduate level PSY 3810 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
</tr>
<tr>
<td>STT6300</td>
<td>6300</td>
<td>Biostatistics</td>
<td>STT</td>
<td>Statistical methods suitable for analysis of data arising in biological and related studies. Estimation and hypothesis testing are reviewed. Methods include one and two sample tests, simple and multiple regression, and analysis of variance. Department Managed Prerequisite(s): Undergraduate level STT 2640 Minimum Grade of D.</td>
<td>2021</td>
<td>Lecture</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Instructor</td>
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<td>Type</td>
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<tr>
<td>PTX4950</td>
<td>4.5</td>
<td>Honors Pharmacology Research</td>
<td>Experiential learning for honors program students interested in basic biomedical research. Tutorial with laboratory.</td>
<td></td>
<td>UG</td>
<td>LB</td>
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<tr>
<td>CME3520L</td>
<td>3.525</td>
<td>Physical Chemistry Lab II</td>
<td>Experimental methods of physical chemistry. Integrated Writing course.</td>
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<td>UG</td>
<td>Lab</td>
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<tr>
<td>SPN3430</td>
<td>3.43</td>
<td>Spanish Culture</td>
<td>Study of Spanish culture with emphasis on its uniqueness among the family of nations. Taught in Spanish. Spanish majors who take SPN 3430 may not take ML 3630 for credit. Department Managed Prerequisite(s): Undergraduate level SPN 3210 Minimum Grade of C or Undergraduate level SPN 3250 Minimum Grade of C.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>NUR8840</td>
<td>8.84</td>
<td>Health Informatics IntProf Pr</td>
<td>This course examines health care information technologies and their use in health care systems to promote positive population outcomes.</td>
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<td>GR</td>
<td>Lecture</td>
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<tr>
<td>RST2610</td>
<td>2.61</td>
<td>Regional St: Japan</td>
<td>Concepts, theories, and evidence describing and analyzing Japan's culture and development with special emphasis on the natural environment. Focuses on Japan's development and the impact of globalization family, work, religious, political, arts, and housing culture. Integrated Writing course.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>MUE2940</td>
<td>2.94</td>
<td>University Women's Chorale</td>
<td>Development of advanced choral and vocal skills. Emphasis on advanced choral literature from a wide range of historical and compositional styles. Audition required.</td>
<td></td>
<td>UG</td>
<td>LL Lecture/Lab Combination</td>
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<tr>
<td>EDS6480</td>
<td>6.48</td>
<td>Stlt Tchng: IS M/J</td>
<td>Candidates, under the direct supervision of an experienced intervention specialist, are assigned to a school for intensive teaching experience in grades K-12 special education for students with moderate/intensive needs.</td>
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<td>GR</td>
<td>IN Internship</td>
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<td>WGS3050</td>
<td>3.05</td>
<td>Topics Sexuality Studies</td>
<td>Issues, approaches, and topics in the field of sexuality studies. Titles and topics vary.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>CS6100</td>
<td>6.10</td>
<td>Grad Research Prog Prac</td>
<td>This course teaches the fundamental concepts of practical research programming to prepare graduate students for developing simulations for computer science and computer engineering research. This class is a project-intensive boot camp for graduate students who came from non-ABET accredited programs, bachelor's programs outside of computer science / computer engineering, or who otherwise need preparation in practical programming at the graduate level.</td>
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<td>GR</td>
<td>LL Lecture/Lab Combination</td>
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<td>HEA7290</td>
<td>7.29</td>
<td>Athl High Ed</td>
<td>Explores the role and impact of athletic programs at the intercollegiate level. Students study administrative and organizational structure, specialized functions, and professional career opportunities within the field of intercollegiate athletics. Planning, financing, programming, and management are studied, as well as the role of athletics within the educational experience.</td>
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<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>ED7610</td>
<td>7.61</td>
<td>C and I for Learning</td>
<td>Students will understand and create curriculum by analyzing Curriculum and Instruction Theory.</td>
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<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>PLS5260</td>
<td>5.26</td>
<td>Black Women and Politics</td>
<td>Examines the role of race and gender in the study of the political behavior of black women in the US, Africa and the diaspora.</td>
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<td>GR</td>
<td>Lecture</td>
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<tr>
<td>KNH1700</td>
<td>1.70</td>
<td>Tai Chi</td>
<td>Fundamental skills and knowledge of Tai Chi. Competency-based approach. Course may accommodate disabled students when appropriate.</td>
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<td>GR</td>
<td>Lab</td>
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<tr>
<td>BME7370</td>
<td>7.37</td>
<td>Medical Devices</td>
<td>For students who are interested in acquiring a broad-based knowledge in the human factors of medical instrumentation and devices. Approaches the design and implementation of medical technology from the perspective of patient safety and product usability. Topics to be covered will range from design guideline considerations, tools for usability analysis, and emerging trends and technologies. Department Managed Prerequisite(s): Graduate level IHE 6300 Minimum Grade of D or Undergraduate level ISE 4300 Minimum Grade of D.</td>
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<td>GR</td>
<td>LE Lecture</td>
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<tr>
<td>ED6510</td>
<td>6.51</td>
<td>Fld Exp II: Meth MA/CIS</td>
<td>Candidates, mentored by a Computer Information Science educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a K-12th grade setting applying pedagogical content knowledge from CIS methods courses.</td>
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<td>GR</td>
<td>IN Internship</td>
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<tr>
<td>REL3120</td>
<td>3.12</td>
<td>Modern Jewish Thought</td>
<td>Major themes and issues in the works of contemporary Jewish thinkers (e.g., Borowitz, Herberg, Fackenheim, Kaplan, Rothchild, Heschel, Rubenstein, and Weisel).</td>
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<td>UG</td>
<td>LE Lecture</td>
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<tr>
<td>ASL3200</td>
<td>3.20</td>
<td>Advanced ASL II</td>
<td>Continued vocabulary and sentence structure acquisition, and comparing ASL and more English based signing vocabulary to increase vocabulary use, comprehension and communication fluency.</td>
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<td>UG</td>
<td>Lecture</td>
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<tr>
<td>CS4970</td>
<td>4.970</td>
<td>Independent Study</td>
<td>Independent study in computer science.</td>
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<td>IS Independent Study</td>
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year: Spring 2021
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<th>Credits</th>
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<th>Status</th>
<th>Time</th>
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<tr>
<td>CHM5350</td>
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<td>Instrumental Analysis</td>
<td>CHM</td>
<td>Chemistry 3</td>
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<td>Introduction to the theory and practice of modern chemical instrumentation. Topics include elementary electronics, spectrophotometry, atomic absorption, electrochemical techniques, chromatography, and other instrumental techniques.</td>
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<td>GR LE Lecture</td>
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<tr>
<td>EES6100</td>
<td></td>
<td>Earth Science Research</td>
<td>EES</td>
<td>3 Provides research experience to prospective high-school science teachers. Students will use laboratory and library research to give quantitative explanations of natural phenomena.</td>
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<tr>
<td>EE4600</td>
<td></td>
<td>UAV Flight Control</td>
<td>EE</td>
<td>3 Introductory course of UAV autopilot design. Major topics include quadrotor dynamics and modeling, UAV sensors, stabilization and control of altitude, pitch/roll, and yaw, position navigation using orientation angles, waypoint navigation, integration and practical issues</td>
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<tr>
<td>SOC3800</td>
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<td>Population &amp; Society</td>
<td>SOC</td>
<td>3 Introduction to factors influencing the structure and growth of human populations and the social consequences of population change. Emphasizes patterns of fertility, mortality, and migration in today's societies and methods and materials used to study populations.</td>
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<tr>
<td>PSY5090</td>
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<td>Psy of Health Behavior</td>
<td>PSY</td>
<td>3 Survey of the psychology of health care. The focus is both theoretical and practical, emphasizing the integration of physiological and psychological knowledge.</td>
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<tr>
<td>MUA2210</td>
<td></td>
<td>Applied Music</td>
<td>MUA</td>
<td>2 Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
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<tr>
<td>ECE4300</td>
<td></td>
<td>Differentiation &amp; Collab</td>
<td>ECE</td>
<td>3 An examination of modifications and teaching strategies necessary to facilitate the diverse learning needs of young students. Focus on developing and implementing differentiated lessons.</td>
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<tr>
<td>DMV0500</td>
<td></td>
<td>Pre-Algebra</td>
<td>DMV</td>
<td>4 Topics include whole numbers, mixed numbers, fractions, decimals, percentages, ratios and proportions, operations with the metric system, operations with integers, solving linear equations, solving literal equations, and solving linear inequalities.</td>
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<tr>
<td>ISE1980</td>
<td></td>
<td>Special Topics in ISE 1</td>
<td>ISE</td>
<td>1 Undergraduate special topics in industrial and systems engineering. Topics vary.</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Instructor</td>
<td>Department</td>
<td>Prerequisite(s)</td>
<td>Notes</td>
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<tr>
<td>ED6475</td>
<td>6475</td>
<td>MA Intern Pt.1: Mth CIS</td>
<td>ED</td>
<td>Education</td>
<td></td>
<td>GR IN Internship</td>
<td></td>
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<tr>
<td>ANT8110</td>
<td>8110</td>
<td>Comprehensive Exam</td>
<td>ANT</td>
<td>Anatomy</td>
<td>Integrates general principles and concepts of the following systems: cardiovascular, gastrointestinal, lymphatic, nervous, respiratory, endocrine, integumentary, muscular, reproductive, and urinary. Knowledge is assessed by an oral examination before a faculty review committee. Graded pass/fail.</td>
<td>GR IS Independent Study</td>
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<tr>
<td>MUA4990</td>
<td>4990</td>
<td>Senior Recital</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>0</td>
<td>A solo concert performance on the major instrument during the senior year.</td>
<td>UG IS Independent Study</td>
<td></td>
</tr>
<tr>
<td>ART5580</td>
<td>5580</td>
<td>Photography</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Exploration of personal concepts and aesthetic expression in photography. Intensive individual work with faculty supervision. This course has a fee that is non-refundable once the term begins.</td>
<td>GR LB Lab</td>
<td></td>
</tr>
<tr>
<td>ART3590</td>
<td>3590</td>
<td>Color Photography</td>
<td>ART</td>
<td>Art</td>
<td>3</td>
<td>Exploration of expanded digital photographic processes and techniques. Investigation of aesthetic possibilities of the media. Development of personal concepts and aesthetic expression in photography. This course has a fee that is non-refundable once the term begins.</td>
<td>UG LB Lab</td>
<td></td>
</tr>
<tr>
<td>PLS4940</td>
<td>4940</td>
<td>Special Topics</td>
<td>PLS</td>
<td>Political Science</td>
<td>1</td>
<td>Problems of contemporary significance. Integrated Writing course.</td>
<td>UG LE Lecture</td>
<td></td>
</tr>
<tr>
<td>ATH3030</td>
<td>3030</td>
<td>Peoples/United States</td>
<td>ATH</td>
<td>Anthropology</td>
<td>3</td>
<td>An introductory course focusing on anthropological approaches to the study of culture in the United States. We belong to a community consisting of people of diverse cultural origins, and of different races, classes, genders and sexual orientations. Although we will consider examples of diversity that have often been labeled multiculturalism, we will also look at otherwise familiar forms of cultural expression using an anthropological lens.</td>
<td>UG LE Lecture</td>
<td></td>
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<tr>
<td>MUA4210</td>
<td>4210</td>
<td>Applied Music</td>
<td>MUA</td>
<td>Music: Applied Music</td>
<td>2</td>
<td>Open only to music majors or minors. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td>UG IS Independent Study</td>
<td></td>
</tr>
<tr>
<td>ACC7810</td>
<td>7810</td>
<td>Special Studies in ACC</td>
<td>ACC</td>
<td>Accountancy</td>
<td>3</td>
<td>Titles vary.</td>
<td>GR LE Lecture</td>
<td></td>
</tr>
<tr>
<td>HST2110</td>
<td>2110</td>
<td>American History to 1877</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Thematic survey of events, forces, groups, and individuals that contributed to and helped to shape an American civilization on the North American continent. Colonial foundations to 1877.</td>
<td>UG LE Lecture</td>
<td></td>
</tr>
<tr>
<td>CHM7350</td>
<td>7350</td>
<td>Analytical Chemistry</td>
<td>CHM</td>
<td>Chemistry</td>
<td>1</td>
<td>A selected topic in the field of analytical chemistry such as chromatography, electroanalytical chemistry such as trace analysis, bioanalytical chemistry, advanced instrumental analysis, analytical spectroscopy, or separation methodology.</td>
<td>GR LE Lecture</td>
<td></td>
</tr>
<tr>
<td>REL5490</td>
<td>5490</td>
<td>Hindu Goddesses</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Exploration of conceptualizations of the divine feminine in one of the oldest, largest, and most complex religious traditions in the world, Hinduism. Approach combines textual, historic, and anthropological resources to understand the nature of the various Hindu goddesses and how they are worshiped.</td>
<td>GR LE Lecture</td>
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<tr>
<td>GEO06460</td>
<td>6460</td>
<td>Transportation Principle</td>
<td>GEO</td>
<td>Geography</td>
<td>3</td>
<td>Overview of principles related to developing and managing public and human service transportation systems. Examines role of public and human service transportation in society, the history and geography of public transportation, and spatial, funding, organizational, cost benefit, labor, and customer service issues.</td>
<td>GR LE Lecture</td>
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<tr>
<td>ME3940</td>
<td>3940</td>
<td>Mech &amp; Mat EGR Intern I</td>
<td>ME</td>
<td>Mechanical and Materials Engr</td>
<td>3</td>
<td>Department internship course. Students are supervised via weekly seminars and regular feedback from employer. Must have completed all of the 2nd year courses as listed in the program guide. Minimum of 30 hours a week for a total of no less than 450 hours of work is required.</td>
<td>UG IN Internship</td>
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<tr>
<td>TH1160</td>
<td>1160</td>
<td>Singing for the Actor II</td>
<td>TH</td>
<td>Theatre</td>
<td>1</td>
<td>Private singing lessons for acting, theatre studies and dance majors only.</td>
<td>UG ST Studio</td>
<td></td>
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<tr>
<td>MTH3120</td>
<td>3120</td>
<td>Theory of Interest</td>
<td>MTH</td>
<td>Mathematics</td>
<td>4</td>
<td>Theory of financial transactions involving interests, annuities, derivatives, options and futures. Compound and simple rates of interest and discount, force of interest, annuity certain and annuity due, mortgage amortizations, evaluation of bonds, durations, asset and liability matching, cash flow analysis, short sales of stocks and options, arbitrage, and an introduction to risk management and immunization. Covers the SoA/CAS syllabus for the actuarial exam FM/2.</td>
<td>GR LE Lecture</td>
<td></td>
</tr>
<tr>
<td>REL3750</td>
<td>3750</td>
<td>Intro New Testament</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Introduction to the literature, history, and religion of early Christianity.</td>
<td>UG LE Lecture</td>
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<tr>
<td>PLS6700</td>
<td>6700</td>
<td>Topics in IR</td>
<td>PLS</td>
<td>Political Science</td>
<td>3</td>
<td>Readings, research, reports, and discussion on selected topics and problems in international relations. Topics vary.</td>
<td>GR SE Seminar</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>ABS7700</td>
<td>Independent Research</td>
<td>7700</td>
<td>Independent laboratory or field research under the sponsorship of a faculty supervisor.</td>
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<tr>
<td>ASM7571</td>
<td>Aerospace Skills I</td>
<td>7571</td>
<td>Aerospace Skills for Healthcare Providers I is intended to provide an integration of flightcrew (pilot) operational aeronautical knowledge/skills and pertinent aeromedical concepts as it pertains to the flight surgeon.</td>
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<tr>
<td>IT3410</td>
<td>Virtual Rhy Instr Dgn</td>
<td>3410</td>
<td>Fundamentals of instruction through 3D Virtual Reality Environments. Covers the basics of 3D graphics, including a number of 3D engines with focus on the Unity3D engine. Uses an approach to a hypothetical training objective through ADDIE.</td>
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<tr>
<td>PSY3010L</td>
<td>Research Methods Psy I Lab</td>
<td>3010L</td>
<td>Required laboratory for PSY 3010. Integrated Writing course.</td>
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<tr>
<td>BIO6040</td>
<td>Topics in Biology</td>
<td>6040</td>
<td>Advanced topics in modern biology of current interest. Topics vary.</td>
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<tr>
<td>BME7980</td>
<td>Special Topics in Biome II</td>
<td>7980</td>
<td>Graduate special topics in advanced biomedical engineering. Topics vary.</td>
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<tr>
<td>BMB6630</td>
<td>Principles of NMR</td>
<td>6630</td>
<td>Students will learn the basic theory of nuclear magnetic resonance (NMR) techniques, including its applications in chemical analysis (spectroscopy) and diagnostic imaging (MRI). Classroom activities will include lectures, problem solving, and student presentations.</td>
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<tr>
<td>BMS9540</td>
<td>Quant Workload Analysis</td>
<td>9540</td>
<td>Physiological and mathematical methods needed to accomplish a workload analysis as requisite to a system design or a redesign of an ergonomic system.</td>
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<tr>
<td>FAS3520</td>
<td>Livestock Breed Reprod</td>
<td>3520</td>
<td>Comparative anatomy and physiology of the male and female reproductive systems of domestic animals, endocrinology of reproduction, gestation and parturition.</td>
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<tr>
<td>ACC7430</td>
<td>Tax-Adv Topic/Research</td>
<td>7430</td>
<td>Introduction to the methodology of tax research and the authoritative tax sources. Applications of research techniques in the analysis of special tax topics related to individuals, corporations, partnerships, estates and trusts.</td>
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<tr>
<td>ATH3010</td>
<td>Peoples/Cultures Africa</td>
<td>3010</td>
<td>Introduction to the diverse, complex and fascinating peoples of sub-Saharan Africa. Particular attention is paid to connections between communities, regions and between Africa and the rest of the world.</td>
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<tr>
<td>ATH6750</td>
<td>Sem Archaeology Theory</td>
<td>6750</td>
<td>Introduces students to the directions taken by archaeological theory during the past century through a sampling of the literature in a number of topical areas. Examines how both the questions asked and the answers found in archaeological data have changed over time.</td>
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<tr>
<td>EES6610</td>
<td>Near-Surface Geophysics</td>
<td>6610</td>
<td>This course teaches the electrical geophysical methods most used for near surface studies, and include GPR (ground penetrating radar), Resistivity, and EM (electro-magnetics). The course includes theory, but especially focuses on data acquisition methods, data processing and analysis, as well as report preparation.</td>
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<tr>
<td>PHY4600</td>
<td>Intro to Quantum Mechanics I</td>
<td>4600</td>
<td>Mathematical structure of quantum mechanics. Applications to selected one- and three-dimensional problems with emphasis on atomic structure.</td>
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<tr>
<td>ED7810</td>
<td>Litrey Resrch: Pract III</td>
<td>7810</td>
<td>Conduct the literacy research project designed in ED 7800. Collect and analyze the data. Final written project includes: findings, discussion, and conclusion (including limitations and implications). This course involves supervision.</td>
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<tr>
<td>PHY6730</td>
<td>Mathematical Physics</td>
<td>6730</td>
<td>Survey of mathematical physics including vector analysis, tensor analysis, calculus of several variables, ordinary and partial differential equations, integral equations, theory of distributions. Ability to apply these to mechanics, electromagnetism, and thermodynamics, and quantum mechanics.</td>
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<tr>
<td>URS6200</td>
<td>Public Mgt. Strategies</td>
<td>6200</td>
<td>Investigates urban management and various techniques to achieve public service goals, including efficiency, quality, and effectiveness. Study of program design, planning, fiscal management, resource allocation through budgeting, program development, and organizational development.</td>
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<tr>
<td>EDS6050</td>
<td>ASD Practicum</td>
<td>6050</td>
<td>Final Certificate program course. Students will develop and implement a research driven initiative that demonstrates their expanded knowledge in working with students with autism. Initiatives will vary depending on interest, setting and specialization.</td>
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<tr>
<td>Semester</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td>Departmental Prerequisite(s)</td>
<td>Offerings</td>
<td>Credits</td>
<td>Type</td>
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<tr>
<td>Spring 2021</td>
<td>PSI9820</td>
<td>Diversity Integration III</td>
<td>PSI</td>
<td>This is the third (capstone) course in a series of three diversity courses on the integration of multiple identities in professional practice. Students are expected to demonstrate diversity competence via reflective learning. The purpose of the course is to help students become more confident in using the competencies that s/he has acquired as a result of diversity courses and clinical training.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>CS101I</td>
<td>Comp Software Prod Tools</td>
<td>CS</td>
<td>Advanced Microsoft Office software for problem solving and data analysis. Spreadsheet and database features such as macros, Visual Basic for Applications in spreadsheets, formula auditing, data validation, switchboards, pivot tables, and web integration.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>MTH6820I</td>
<td>Applied Mathematics II</td>
<td>MTH</td>
<td>Use of integral transforms in the solution of differential and integral equations, Fourier series, Fourier and Laplace transforms, distributions, integral equations, Green's functions, Sturm-Liouville theory, perturbation methods and asymptotics, orthogonal functions, and special functions.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>SOC2000I</td>
<td>Intro to Sociology</td>
<td>SOC</td>
<td>Introduction to the processes through which individuals become members of groups, organizations, institutions, and societies, and how human social interactions lead to changes in social life and structures. Integrated Writing course. Multicultural Competence course.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>EE7610I</td>
<td>Random Processes</td>
<td>EE</td>
<td>Probability and random variable, distributions and density functions, random processes, strict-sense and wide-sense stationarity, auto-correlation and power spectral density, ergodicity, response of linear systems with stochastic inputs, discrete linear models, and Gaussian processes.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>MTH4260I</td>
<td>Immunology</td>
<td>MI</td>
<td>Principles of basic immunology. Cellular and soluble factors associated with innate and adaptive immunities. Examines functions of phagocytes, natural killer (NK) cells, B cells, and T cells.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>URS4400I</td>
<td>Comm/Reg Planning II</td>
<td>URS</td>
<td>Examination of the links between urban planning and urban administration, and investigation of planning as a profession and a process.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4470L</td>
<td>Antenna Thry Design Lab</td>
<td>EE</td>
<td>Hands-on experience and fabrication of antenna elements with evaluation of antenna performance.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
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</tr>
<tr>
<td>Spring 2021</td>
<td>PSY8710I</td>
<td>Psychology of Leadership</td>
<td>PSY</td>
<td>Designed to explore the theories, research, and practice of leadership in work organizations from a psychological perspective.</td>
<td>GR</td>
<td>SE</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FAS2700I</td>
<td>Intro Int Pest Manage</td>
<td>FAS</td>
<td>Identification and management of diseases, insects, and weeds in crop production systems. Topics include pesticide safety, pesticide characteristics, pesticide handling, environmental stewardship, application methods, equipment calibration, laws and regulations, pest monitoring, and pest identification.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ART4780I</td>
<td>Advanced Sculpture</td>
<td>ART</td>
<td>Further development of personal concepts and aesthetic expression in sculpture. Emphasis on individualized approach to sculptural problems using media selected by the students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
<td>LB</td>
<td>Lab</td>
<td></td>
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<tr>
<td>Spring 2021</td>
<td>NUR7213I</td>
<td>AG AC Diagnostic Procd.</td>
<td>NUR</td>
<td>This course provides theoretical knowledge and emphasizes psychomotor skills.</td>
<td>GR</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>ED2510I</td>
<td>Txt Anlys of Lit for MCE</td>
<td>ED</td>
<td>Understanding strategies for reading, interpreting, and analyzing informational, persuasive, and literary texts.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
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<tr>
<td>Spring 2021</td>
<td>FIN4160I</td>
<td>Retirement Planning</td>
<td>FIN</td>
<td>Retirement planning and employee benefits and the application of these concepts to overall financial planning for individuals and small businesses.</td>
<td>UG</td>
<td>LE</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUE2480I</td>
<td>University Clarinet Choir</td>
<td>MUE</td>
<td>Performed music of all time periods and styles originally composed for this instrumentation as well as transcriptions of masterworks.</td>
<td>UG</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
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<td>Semester</td>
<td>Course Code</td>
<td>Section</td>
<td>Title</td>
<td>Credits</td>
<td>Description</td>
<td>CRN</td>
<td>Level</td>
<td>Type</td>
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<tr>
<td>Spring 2021</td>
<td>CEG2350</td>
<td>2350</td>
<td>Op Sys Concepts &amp; Usage</td>
<td>4</td>
<td>Provides introduction to Linux and Windows operating systems and system administration. Covers files and directories, ownership and sharing, programs and processes, system calls, libraries, dynamic linking, command line shells, scripting, regular expressions and secure network protocols.</td>
<td>G</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MTE6990</td>
<td>6990</td>
<td>Sel Topics Math Stat Ed</td>
<td>1</td>
<td>Selected topics pertinent to Pre K - 14 mathematics educators.</td>
<td>G</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CEG3320</td>
<td>3320</td>
<td>Digital System Design</td>
<td>4</td>
<td>Basics of digital computer hardware and design. Topics include switching algebra and switching functions, logic design of combinational and sequential circuits, storage elements, register-level design, and instrumentation. Integrated Writing course.</td>
<td>U</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BIO6430L</td>
<td>6430L</td>
<td>Vertebrate Histology Lab</td>
<td>3.5</td>
<td>An introduction to the identification and analysis of artifacts commonly encountered in prehistoric North American archaeological sites, emphasizing lithics and ceramics. Students undertake an original analysis of a selected group of artifacts from excavated sites and produce a report of their findings and interpretations.</td>
<td>G</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ATH3510</td>
<td>3510</td>
<td>Lab in Archaeology</td>
<td>3</td>
<td>An introduction to the identification and analysis of artifacts commonly encountered in prehistoric North American archaeological sites, emphasizing lithics and ceramics. Students undertake an original analysis of a selected group of artifacts from excavated sites and produce a report of their findings and interpretations.</td>
<td>U</td>
<td>LB</td>
<td>Lab</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ED4900</td>
<td>4900</td>
<td>Student Teach: Music</td>
<td>8</td>
<td>Under the direct supervision of an experienced classroom teacher, candidates are assigned to a school for intensive teaching experience in grades K-12 in music education.</td>
<td>U</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SOC6710</td>
<td>6710</td>
<td>Victimology</td>
<td>3</td>
<td>A comprehensive examination of victims of crime in both the United States and internationally. Also explores the role and impact of the criminal justice system on crime victims.</td>
<td>G</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>NUR4980</td>
<td>4980</td>
<td>Honors Project Proposal</td>
<td>2</td>
<td>Under the guidance of a faculty member, students develop an honors project.</td>
<td>G</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EES6050</td>
<td>6050</td>
<td>Earth Sci Concept for Ed</td>
<td>3.5</td>
<td>This course is an introductory survey of the earth sciences, from rocks and minerals, through plate tectonics, geologic time, oceanography and meteorology, to planetary science. Lecture is interspersed with hands-on activities intended to reinforce concepts and to provide the students with ideas for teaching their own classes. Students will also develop lesson plans on several topics.</td>
<td>G</td>
<td>LL</td>
<td>Lecture/Lab Combination</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUS4550</td>
<td>4550</td>
<td>Vocal Literature 1</td>
<td>2</td>
<td>Survey of vocal literature from the 18th through the 20th century emphasizing German lieder, French melodie, and English and American art songs.</td>
<td>U</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ECE4200</td>
<td>4200</td>
<td>Math Methods in ECE</td>
<td>3</td>
<td>Curricula and materials for teaching early childhood mathematics emphasizing conceptual math, growth mindset, integration, and interventions to meet the needs of diverse learners. Includes development and implementation of assessments, lessons, and appropriate modifications.</td>
<td>U</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE4210</td>
<td>4210</td>
<td>Digital Communication</td>
<td>3</td>
<td>Introduction to digital communications: analog communication vs digital communication, source coding, pulse shaping, digital modulation/demodulation, signal detection and optimal receiver.</td>
<td>U</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY6920</td>
<td>6920</td>
<td>Clinical Neuro Cap</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on clinical neuroscience.</td>
<td>G</td>
<td>SE</td>
<td>Seminar</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MLB4510</td>
<td>4510</td>
<td>Basic Clinical Chemistry</td>
<td>2</td>
<td>Theory and application of human biochemistry and principles of chemistry techniques used in the analysis of blood and other body fluids.</td>
<td>U</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL6810</td>
<td>6810</td>
<td>Independent Study</td>
<td>1</td>
<td>Faculty-directed, individualized study on student-selected topics. Limited to advanced students. Permission of faculty and a minimum 3.5 GPA required.</td>
<td>G</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MUA7400</td>
<td>7400</td>
<td>Applied Music</td>
<td>4</td>
<td>Open only to Graduate Students. All students must have auditioned for and have received departmental approval before registering for applied music.</td>
<td>G</td>
<td>IS</td>
<td>Independent Study</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EE6420</td>
<td>6420</td>
<td>Microwave Egr I</td>
<td>3</td>
<td>Transmission line theory and application wave propagation in rectangular waveguides, microwave network analysis, matching network, design of microwave filter and resonator, and introduction of electromagnetic compatibility.</td>
<td>G</td>
<td>LE</td>
<td>Lecture</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ACC4810</td>
<td>4810</td>
<td>Internship in Accounting</td>
<td>1</td>
<td>Faculty-supervised internship in the area of public, industrial, or governmental accounting.</td>
<td>U</td>
<td>IN</td>
<td>Internship</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>LEP0120</td>
<td>0120</td>
<td>Writing Workshop Level 1</td>
<td>LEP</td>
<td>LEAP</td>
<td>0</td>
<td>Writing workshop (revision, editing and lab) for beginning ESL students. This course has a fee that is non-refundable once the term begins.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSY5070</td>
<td>5070</td>
<td>Tests &amp; Measures</td>
<td>PSY</td>
<td>Psychology</td>
<td>3</td>
<td>Introduction to the use, application, evaluation, and development of psychological tests and measures including ability, aptitude, attitude, standardized, or normed measures.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>MGT7730</td>
<td>7730</td>
<td>Proj Pln Eval &amp; Contrl</td>
<td>MGT</td>
<td>Management</td>
<td>3</td>
<td>Focuses on project planning and control, with emphasis on practical application. Overview of the theoretical and practical mechanisms through which project planning, evaluation, and control occur. Additionally, a course project allows students to practice concepts and techniques presented in the course, taking a service project front he planning phase through scheduling, budgeting, execution and project termination.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>BME4710</td>
<td>4710</td>
<td>Optical Imaging</td>
<td>BME</td>
<td>Biomedical Engineering</td>
<td>3</td>
<td>Biophotonics and optical imaging concepts. Basic optics, light propagation in tissue, modern microscopy techniques, diagnostic use of lasers (optical biopsies, optical spectroscopy, optical imaging), thermal aspects of light-tissue interaction, therapeutic use of laser (laser ablation, photodynamic therapy, light-activated therapy), novel technologies and applications including optical molecular imaging. Includes microscopy facility tour and small lab experiments.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ENG4450</td>
<td>4450</td>
<td>Studies in Lit Theory</td>
<td>ENG</td>
<td>English</td>
<td>3</td>
<td>Intensive study of literary theory in order to develop an understanding of critical questions and approaches. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>FIN6120</td>
<td>6120</td>
<td>Fixed Income Sec. Analys</td>
<td>FIN</td>
<td>Finance</td>
<td>3</td>
<td>Introduction to the valuation of fixed income securities and the management of fixed income investment portfolios.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PHIL3990</td>
<td>3990</td>
<td>Studies Select Subjects</td>
<td>PHIL</td>
<td>Philosophy</td>
<td>3</td>
<td>Problems, approaches, and topics in the field of philosophy. Topics vary.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>REL3770</td>
<td>3770</td>
<td>The Letters of Paul</td>
<td>REL</td>
<td>Religion</td>
<td>3</td>
<td>Literary and historical study of the letters of Paul. When and why they were written, and how they fit into the development of the early Jesus movement. Some consideration of the biography of Paul and his influence. Integrated Writing course.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CHM5510</td>
<td>5510</td>
<td>Physical Chemistry I</td>
<td>CHM</td>
<td>Chemistry</td>
<td>3</td>
<td>Theoretical aspects of chemistry including thermodynamics, chemical kinetics, molecular structure and spectra, and the structure of solids and liquids.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>ISM8200</td>
<td>8200</td>
<td>Semester Internship</td>
<td>ISM</td>
<td>Interdis. Appl. Sci. and Math</td>
<td>3</td>
<td>This course will expose students to the expectations of the professional workforce while learning how to apply scientific knowledge in a professional research and development environment. It will also give students the opportunity to test their interest in and aptitude for a particular career path outside of academia. This internship will take place at an off-campus public or private entity engaged in work relevant to ISM Program oriented research topics.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>URS6340</td>
<td>6340</td>
<td>Fundraising/Gra nt Write</td>
<td>URS</td>
<td>Urban Affairs</td>
<td>3</td>
<td>Examines the concepts and processes fundamental to fundraising and grant writing. Explores tools, techniques and skills needed to raise funds and write grant proposals.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>DAN1210</td>
<td>1210</td>
<td>Jazz for MT I</td>
<td>DAN</td>
<td>Dance</td>
<td>1</td>
<td>Group class introducing Musical Theatre majors to fundamentals of jazz and modern dance techniques.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>TMG2700</td>
<td>2700</td>
<td>Production Management</td>
<td>TMG</td>
<td>Technical Management</td>
<td>3</td>
<td>Introduction to the production system, including product parts manufacture, process routing, quality standards, work measurement, work methods, scheduling, and inventory control.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>PSI1944</td>
<td>9440</td>
<td>Child Psychotherapy</td>
<td>PSI</td>
<td>Professional Psychology</td>
<td>3</td>
<td>Overview of current theory, research, and techniques of psychotherapy for children and adolescents with specific emphasis on behavior therapy, play therapy, group therapy, family therapy, and milieu therapy.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>SPN6500</td>
<td>6500</td>
<td>Grad Research in Sp</td>
<td>SPN</td>
<td>Spanish</td>
<td>1</td>
<td>Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>HST6000</td>
<td>6000</td>
<td>Ancient History</td>
<td>HST</td>
<td>History</td>
<td>3</td>
<td>Examines selected problems in Greek or Roman history to the death of Constantine in A.D. 337. Topics vary.</td>
<td>GR</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>EC2050</td>
<td>2050</td>
<td>Principle Macroeconomic s</td>
<td>EC</td>
<td>Economics</td>
<td>3</td>
<td>Fundamental principles of macroeconomics as an aid in understanding modern society.</td>
<td>UG</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>CS7230</td>
<td>7230</td>
<td>Information Theory</td>
<td>CS</td>
<td>Computer Science</td>
<td>3</td>
<td>Course addresses the following questions that are fundamental to the design and evaluation of all information systems: What is information? How can we measure it? What are the fundamental limits on the extraction of information from the environment? What are the fundamental limits on the compression and refinement of information? How should devices be designed to approach these limits? How closely do existing devices approach these limits?</td>
<td>GR</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>LA1010</td>
<td>Intro to Liberal Arts</td>
<td>1</td>
<td>Overview of program and career opportunities. Includes strategies for achieving academic success through time management, communication skills, note taking, test study, test taking, and enrichment opportunities.</td>
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<tr>
<td>MUS3290L</td>
<td>Adv Choral Cond Lab I</td>
<td>3</td>
<td>Builds upon the previously gained conducting experiences and knowledge.</td>
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<tr>
<td>IT4479</td>
<td>Special Topics</td>
<td>4</td>
<td>Focused study in an area of interest in Graphic Design and Visual Media.</td>
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<tr>
<td>ED6440</td>
<td>AYA Intern Pt I</td>
<td>6</td>
<td>Candidates, mentored by a language arts educator, shall assist in the planning, organizing, delivering, and assessing of instruction in a 7-12th grade setting applying pedagogical content knowledge from language arts content and methods courses.</td>
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<tr>
<td>FR5990</td>
<td>Studies in Selected Subj</td>
<td>3</td>
<td>Graduate level research and writing in the field of French. Topics vary. Taught in French. Team taught. Department Managed Prerequisite(s): Undergraduate level FR 5110 Minimum Grade of C or Graduate level FR 5120 Minimum Grade of C or Graduate level FR 5210 Minimum Grade of C or Graduate level FR 5220 Minimum Grade of C.</td>
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<tr>
<td>IHE7010</td>
<td>Hum Dec Mak</td>
<td>3</td>
<td>Methods, concepts, theories and practice of decision analysis and its role in providing decision-making assistance to human decision makers. Applications-oriented issues are emphasized. Department Managed Prerequisite(s): Graduate level IHE 6120 Minimum Grade of D or Undergraduate level ISE 2211 Minimum Grade of D.</td>
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<tr>
<td>BME1980</td>
<td>Special Topics in BME</td>
<td>3</td>
<td>Undergraduate special topics in biomedical engineering. Topics vary.</td>
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<tr>
<td>FR2020</td>
<td>Intermediate French II</td>
<td>3</td>
<td>Grammar review, reading, and discussion of selected texts and film shorts, with practice in speaking and writing the language. Taught in French. Department Managed Prerequisite(s): Undergraduate level FR 2010 Minimum Grade of D.</td>
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<tr>
<td>DAN3310</td>
<td>Musical Theatre Dance I</td>
<td>3</td>
<td>Group class applies ballet, jazz, and modern dance techniques to Musical Theatre dance.</td>
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<tr>
<td>FAS1050</td>
<td>Amish Society</td>
<td>3</td>
<td>Introduces the history, culture and social organization of the Amish, with emphasis on the cultural and social differences between Amish society and modern western cultures. Integrated Writing course.</td>
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<tr>
<td>DAN3050</td>
<td>Ballet Musical Th IV</td>
<td>2</td>
<td>Group class for musical theatre majors to develop more advanced ballet techniques.</td>
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<tr>
<td>BMS9910</td>
<td>Special Topics</td>
<td>3</td>
<td>Selected topics in biomedical sciences.</td>
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<tr>
<td>BME4410</td>
<td>Biothermodynamics</td>
<td>3</td>
<td>Application of first and second laws of thermodynamics to human, physiological and biological systems.</td>
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<tr>
<td>MUS2560</td>
<td>Piano Music</td>
<td>3</td>
<td>Class instruction in functional keyboard skills.</td>
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<tr>
<td>EED4800</td>
<td>Professional Seminar P-5</td>
<td>3</td>
<td>Seminar course prepares teacher candidates for entering the field of teaching in grades P-5. Topics include: teacher assessment, licensure, resume building, interview portfolio, job search, interviewing techniques, and ethics surrounding teachers. Integrated Writing course.</td>
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<tr>
<td>PSY6360</td>
<td>Development Psych Cap</td>
<td>3</td>
<td>Communication-intensive seminar integrating knowledge on current theory, research, and applied issues in selected aspects of development across the lifespan. Topic will vary.</td>
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<tr>
<td>TH2450</td>
<td>Acting II</td>
<td>3</td>
<td>Continues training with monologues and scenes. Emphasis is on non-classical, contemporary scripts.</td>
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<tr>
<td>EE4730L</td>
<td>Wireless Comm Lab</td>
<td>3</td>
<td>Application-rich environment that realizes the important modulation, demodulation and decision schemes that are the foundation of wireless communication. Department Managed Prerequisite(s): Undergraduate level EE 3260 Minimum Grade of D and Undergraduate level EE 4210 Minimum Grade of D.</td>
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<tr>
<td>EDL7210</td>
<td>Curr Design for Teh</td>
<td>3</td>
<td>Management and leadership skills as related to developing and organizing curriculum and materials relating to implementing the learning program with students.</td>
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<tr>
<td>PSY1010</td>
<td>Intro to Psychology</td>
<td>4</td>
<td>History of psychology, research methods, brain and behavior, sensation, perception, consciousness, learning, memory, cognition, language, intelligence, development, motivation, emotion, social behavior, personality, health, psychopathology, therapy, and applied psychology - e.g. industrial organizational psychology. Integrated Writing course.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Requirement</td>
<td>Prerequisites</td>
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<tr>
<td>EES3180</td>
<td>Water &amp; the Environment</td>
<td>3</td>
<td>UG</td>
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<tr>
<td>EES1050L</td>
<td>Dynamic Earth Lab</td>
<td>1050</td>
<td>LB</td>
<td>Required laboratory for EES 1050.</td>
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<tr>
<td>BMS7450</td>
<td>Rehab Eng Serv Delivery</td>
<td>7450</td>
<td>SE</td>
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<tr>
<td>MI4310</td>
<td>Virology</td>
<td>4310</td>
<td>IS</td>
<td>Senior Honors Project</td>
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<tr>
<td>MUE2690</td>
<td>Wind Symphony</td>
<td>2690</td>
<td>LL</td>
<td>The university's most select symphonic band organization, this ensemble performs compositions ranging from traditional classics to innovative contemporary literature, including transcriptions and original works. Audition and instructor permission required.</td>
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<tr>
<td>EE7460</td>
<td>Adv Electromagnetic Eng</td>
<td>7460</td>
<td>LE</td>
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<tr>
<td>EE6730</td>
<td>Wireless Comm Engineering</td>
<td>6730</td>
<td>LE</td>
<td></td>
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<tr>
<td>PTX8000</td>
<td>Selected Topics</td>
<td>8000</td>
<td>LE</td>
<td></td>
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<tr>
<td>MUE6700</td>
<td>Univ Symphony Orchestra</td>
<td>6700</td>
<td>LL</td>
<td>Performs orchestral music of all styles and periods.</td>
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<tr>
<td>HST4840</td>
<td>Religious History</td>
<td>4840</td>
<td>LE</td>
<td></td>
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<tr>
<td>ME6870</td>
<td>Machining</td>
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<td>SLI2990</td>
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<td>LEP0440</td>
<td>Level 4 Academic Success</td>
<td>0440</td>
<td>LE</td>
<td>Participants will learn how to succeed academically by practicing skills and strategies for understanding academic lectures, by practicing note-taking and organization, and by practicing advanced academic vocabulary. Listening comprehension will be improved through a variety of interactive listening and discussion activities based on academic lectures and conversations.</td>
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