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Committee Minutes Committee

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Undergraduate Curriculum and Academic Policy Committee

Minutes of March 11, 2004 Meeting

Present: Charles Long (for Jeanne Fraker), David Green, Tracey Steele (for Charles Larkowski), Joe Law, Henry Limouze, Jan Maxwell, Jean Edwards (for KT Mechlin), Richard Mercer, Sharmila Mukhopadhyay, Tony Ortiz, Susan Praeger, Tom Sav.

Approved Minutes of February 16, 2004

UCAPC Subcommittee Reports

Writing Across the Curriculum Committee: Joe Law, WAC Chair. Nothing to report at this time.

University General Education Committee: Henry Limouze, UGEC Chair, reported on the activities of the committee at its February 19 and March 4 meetings. The minutes are available as follows:

[UGEC Minutes, February 19, 2004](#)

[UGEC Minutes, March 4, 2004](#)

Course Inventory and Modification Requests

COLA: SPN 483 Inventory (approved via email based on completed review by the COBA -- previously tabled November 18 for such review)

CECS:

Approved Inventories: ISE 210. Approved by the UGEC as a New GE Program Area VI: College Component course for the CECS, the proposal must now be approved by the Faculty Senate.

Approved Modifications: ME 212

COBA:

Approved Modifications: ACC 424, MKT 451, MKT 492

COLA:

Approved Modifications: ML 369, ENG 205, ENG 341, ENG 342. The committee noted that the ENG 205 modification (change from 3 to 4 credit hours) and the ENG 341 and 342 (both change 3 to 4 credit hours) may affect program requirements and, therefore, require program change submissions for Middle Childhood and Adolescent/Young education.

CONH:

Approved Inventories: NUR 445, NUR 455

Approved Modifications: NUR 441, NUR 442, NUR 443, NUR 444, NUR 452, NUR 453, NUR 454

COSM:

Approved Inventories: BIO 452, PSY 203, PSY 301, PSY 302, PSY 303, PSY 309, PSY 402, PSY 487
Returned Inventories: BIO 101. Being that the proposed new course is cross listed with CLS 101, the

committee noted that the catalog description must be identical to CLS 101. In the present proposal it significantly differs. In addition, the college should check to assure that the Title for Student Record is identical. While trying not to be too harsh, the committee noted that the hand-written submission was legibly questionable.

Approved Modifications: BMB 499, EH 466, EH 467

Program Changes

COSM:

Approved: B.A. Psychology (the committee noted the incorrect submission of the GE Program Requirement hours and, therefore, the Elective Requirement hours and corrected both upon the agreement of the college representatives)

Approved: B.S. Psychology (the committee noted the incorrect submission of the GE Program Requirement hours and, therefore, the Elective Requirement hours and corrected both upon the agreement of the college representatives)

The two proposals along with a Transition Plan (that the committee commended the college for constructing and submitting as part of the program changes and encouraged all colleges to do likewise in accordance with the Policies and Procedures For Program Changes) are available as follows:

[B.A and B.S. in Psychology](#)

CONH: Approved B.S. Nursing, Beacon Program available as follows:

[B.S. Nursing, BEACON Program](#)

CECS: At the request of the COSM to review the program changes for the following, the committee tabled the proposals with the understanding that they will be taken under consideration at the next meeting::

[B.S. Biomedical Engineering \(A: Traditional\)](#)

[B.S. Biomedical Engineering \(B: Premedical\)](#)

[B.S. Industrial and Systems Engineering](#)

[B.S. Electrical Engineering](#)

[B.S. Engineering Physics](#)

Approved: B.S. Mechanical Engineering (the committee noted the incorrect submission of the Engineering Requirements credit hours and made the necessary correction upon the agreement of the college representative) available as follows:

[B.S. Mechanical Engineering](#)

Approved: B.S. Material Science and Engineering (the committee noted the incorrect submission of the Engineering Requirements credit hours and made the necessary correction upon the agreement of the college representative) available as follows:

[B.S. Material Science and Engineering](#)

General Education Program: Approved by the UGEC and the UCAPC, the program change removes the restriction that a student (unless required by the major) must take an "all or nothing" Area V: Natural Science listed "Sequence Substitution" to count toward completion of the Area V requirement. Hence, students could be allowed to count Area V: Natural Sciences courses listed in any "Sequence Substitution" as satisfying an Area V requirement course without completing the entire sequence. The complete proposal is available as follows:

[General Education Sequence Substitutions/Courses](#)

Spring Quarter Meeting Schedule

The committee set its Spring Quarter meetings for April 12 and May 17. All proposals from colleges **must be received** with the original plus 19 copies by March 31, 12:00 noon for the April 12 UCAPC meeting and by May 5, 12:00 noon for the May 17 UCAPC meeting. Submissions received after the May 5 deadline will be considered by the UCAPC next academic year at the the September or October 2004 meeting. ***The UCAPC***

cannot make exceptions to the established deadlines.

IMPORTANT NOTE: Any curriculum or academic policy proposals that must go before the Faculty Senate for approval this academic year must be submitted to the UCAPC by the March 31 deadline because IF approved by the UCAPC, the Faculty Senate will consider it as New Business at its May 3 meeting and act on it as Old Business at its June 7 meeting. Proposals that must go to the General Faculty for approval at its May 18 meeting must be approved by the Faculty Senate on May 3. Otherwise, they will be carried over to the November 2004 General Faculty Meeting.

[UCAPC HOME](#)

University General Education Committee
Meeting of February 19, 2004

Present: Susan Carrafiello (Honors), Valerie Doll (CEHS), Jeanne Fraker (UVC), David Green (Student), Lillie Howard (Provost), Daniel Ketcha (CoSM), Joe Law (WAC), Evan Osborne (RSCoB), David Reynolds (CECS), Thomas Svobodny (CoSM), Henry Limouze (CoLA, Chair)

1. Minutes from January 29 were approved.
2. The committee reconsidered the proposed new Area 6 (college component) course in Engineering and Computer Sciences, ISE 210. The committee agreed the proposal did a very satisfactory job of clarifying how the course met the objectives for Area 6. The master syllabus is clear. The committee approved the course and recommends it to UCAPC for approval.
3. The committee considered the assessment proposal for Area 1--Writing received from Dr. Rich Bullock and distributed at the last meeting. The committee will send recommendations for improvements to Dr. Bullock.
4. The committee tabled action on the Area 6 plans submitted from CEHS. They will be considered after a meeting with the Associate Deans next week.
5. The chair distributed all assessment plans received before today's meeting. They include complete plans for Areas 2 and 4, and a plan for Area 1--Mathematics.
6. The committee discussed new data relating to GE staffing. The chair distributed information relating to GE sections taught in F 97. Vice President Howard distributed similar information for F 96 and F 95, along with a breakdown of the recent F 03 data, showing the numbers of faculty at each rank teaching in each area. The numbers appear to show that tenured and tenure-line faculty teach fewer sections of GE courses than they once did. However, percentages alone are deceiving, since the professorial faculty appear to teach nearly the same number of credit hours. Rather GE has shown a 68% growth in credit hours from F 97 to F 03. The new credit hours are almost exclusively taught by non-tenure-line faculty. On the other hand, the breakdown of F 03 data into areas seems to show that some areas of GE have no professorial faculty at all teaching these courses; others have relatively few. The chair suggested that the committee might make a two-pronged recommendation: (1) the committee might recommend that colleges and departments try to assign more sections of GE classes to professorial faculty; (2) the committee might also recommend that the Deans and Provost work to staff GE needs in the future by hiring tenure-line faculty, since the data does seem to show that the recent growth in demand has been met by the hiring of instructors and lecturers.

Professor Svobodny shared data from a survey he conducted to gather the views of faculty in the Department of Mathematics and Statistics about GE courses. The committee agreed that this survey was worth doing elsewhere in the GE program.

7. Vice President Howard updated the committee on OBR transfer module issues. A recent letter from the OBR has clarified some questions. We now have some guidance for revising our presentation of some courses. Many of the GE substitution courses may simply need clarification; it appears they have been conditionally approved. Others still present difficulties. Vice President Howard is working with chairs and faculty to prepare revised course descriptions.
8. Henry Limouze and Lillie Howard will meet with Associate Deans on Thursday, Feb. 26 to discuss assessing the college component area. The next meeting of UGEC will be on Thursday, March 4 at 4:00 p.m. in 348 University Hall.

The meeting adjourned at 5:20 P.M.

University General Education Committee
Meeting of March 4, 2004

Present: Carl Brun (CoLA), Susan Carrafiello (Honors), Valerie Doll (CEHS), Jeanne Fraker (UVC), David Green (Student), Daniel Ketcha (CoSM), Joe Law (WAC), Evan Osborne (RSCoB), David Reynolds (CECS), Thomas Svobodny (CoSM), Henry Limouze (CoLA, Chair)

1. Minutes from February 19 were approved.
2. The committee considered the assessment proposal for Area 1—Mathematics received from Linda Lester and distributed at the last meeting. The committee will send recommendations for improvements to Ms. Lester.
3. The committee considered the assessment proposal for Area 2—Cultural-Social Foundations received from Susan Carrafiello, Mary Ellen Mazey, and Kathryn Meyer. The committee will send recommendations for improvements to Dr. Carrafiello.
4. The committee postponed action on the Area 4 plan submitted from Joe Law and Randall Paul due to lack of time. This plan will be considered at the next UGEC meeting.
5. The committee considered the proposal (reviewed and approved by the CoSM Curriculum Committee) to permit students in certain circumstances to count individual courses from “sequence substitutions” in the natural sciences for GE credit. The following statement was approved and is recommended to UCAPC for approval as a note to be added to the end of the first section, “General Education Program,” of the official university General Education document (page 5):

"Sequence substitutions" in the natural sciences must be taken as complete sequences by students whose majors require them. However, after the completion of any course prerequisites and subject to the approval of their college or department, other students may take any approved GE science course to count for GE credit. In cases where students transfer from one college to another, the new college may approve such classes for GE credit after their completion.
6. The chair has been informally and unofficially asked to consider accepting reappointment as UGEC chair for next year. The chair is willing to serve, as long as no committee members object. Any committee member who would prefer (for any reason) not to see this happen should contact Dr. Drew Pringle, Dr. Jack Dustin, or Pam Zambenini.

The meeting adjourned at 5:20 P.M.

I. Curriculum Changes for the B. A. and B. S. Programs for Psychology Majors,
College of Science and Mathematics, Department of Psychology

II. Program Changes

The current and proposed programs for the BA degree in psychology are described in the following table.

Bachelor of Arts Degree Requirements: Comparison of Current and New (proposed)

Current		New	
General Education	52	General Education	57
Required Substitutions:		Require Substitutions:	
Area I: STT 264, 265*		Area I: STT 160	
Area III: PSY 105		Area III: PSY 105	
Area VI: PSY 110		Area VI: PSY 110	
Psychology Core Requirements	57	Psychology Core Requirements	68
4 of the following (2 from each row)	16	7 Core Courses	28
		(2 from row 1, 2 from row 2)	
Row A: PSY 311, 331, 341, 351		Row 1: 321, 361, 371, 391	
Row B: PSY 321, 361, 371, 391		Row 2: 311, 331, 341, 351	
PSY 300	4	Row 3: 304, 306, 307, 309	
4 400 level PSY courses	16	PSY 301, 302 & 303	12
PSY Electives	20	Two PSY 487	8
Required Supporting Courses	11-13	PSY Electives	20
MTH 126 or 127, & STT 264, 265		Required Supporting Courses	3-5
College Requirement	27	MTH 126 or 127	
27 hours outside CoSM & CECS		College Requirement	27
General Electives	37-39	27 hours outside CoSM & CECS	
Total Hours	183	General Electives	30-32
		Total Hours	187

*Hours counted under "Required Supporting Courses"

Specific changes include:

General Education, Area I required substitutions will change from STT 264 and STT 265 to STT 160.

Psychology core requirements will change from 4 core courses to 7 core courses with at least 2 from row 1 and 2 from row 2; from PSY 300 to PSY 301, PSY 302, and PSY 303; from 4 400 level PSY courses to 2 PSY 487 courses.

Required Supporting Courses will change from MTH 126 or MTH 127 and STT 264 and STT 265 to MTH 126 or MTH 127.

General Electives will change from 37-39 to 31-33.

Total Hours will be changed from 183 to 187.

The current and proposed programs for the B.S. degree in psychology are described in the following table.

Department of Psychology
Bachelor of Science Degree Requirements: Comparison of Current and New (proposed)

Current		New	
General Education	52	General Education	57
Required Substitutions:		Require Substitutions:	
Area I: STT 264, 265*		Area I: STT 160	
Area III: PSY 105		Area III: PSY 105	
Area VI: PSY 110		Area VI: PSY 110	
Psychology Core Requirements	65	Psychology Core Requirements	76
5 of the following	20	7 Core Courses: (2 from row 1, 2 from row 2, 1 from row 3)	28
(at least 2 from each row)		Row 1: 321, 361, 371, 391	
Row A: PSY 311, 331, 341, 351		Row 2: 311, 331, 341, 351	
Row B: PSY 321, 361, 371, 391		Row 3: 304, 306, 307, 309	
PSY 300, 400	9	PSY 301, 302 & 303	12
4 400 level PSY courses	16	PSY 402 or STT 265	4
2 courses from the following:		2 PSY 487	8
PSY 323, 333, 343, 353, 363, 373, 393	8	1 course from the following:	
PSY Electives	12	PSY 323, 333, 343, 353, 363, 373, 393	4
Required Supporting Courses	19-21	PSY Electives	20
MTH 128 or 129, & STT 264, 265	11-13	Required Supporting Courses	11-13
CS 141, 142, 208, 209	8	MTH 128 or 129	3-5
		CS 141 & 142	8
		(or 2 other programming courses)	
General Electives	47-49	General Electives	41-43
Total Hours	183	Total Hours	187

*Hours counted under “Required Supporting Courses”

Specific changes include:

General Education, Area I required substitution will change from STT 264 and STT 265 to STT 160.

Psychology Core Requirements will change from 5 core courses to 7 with at least 2 from row 1, 2 from row 2 and 1 from row 3; from PSY 300 to the 3 course sequence of PSY 301, PSY 302, and PSY 303; from PSY 400 to PSY 402 or STT 265; from 2 courses selected from PSY 323, 333, 343, 353, 363, 373, or 393 to one course selected from 323, 333, 343, 353, 363, 373, or 393; and from four 400 level psychology courses to two PSY 487 seminar courses.

Required Supporting Courses will change from MTH 128 or MTH 129 and STT 264 and STT 265 to MTH 128 or MTH 129; and from CS 141 and 142 or CS 208 and CS 209 to CS 141 (or other programming class) and CS 142 (or other programming class)

Course Inventory Requests for six new courses (PSY 301, PSY 302, PSY 303, PSY 309, PSY 402 and PSY 487 are attached.

- III. A one-year transition period is planned. The proposed curriculum changes will be introduced in the fall quarter, 2004. During the 2004-2005 academic year, both currently offered courses and the proposed new courses will continue to be offered. Letters outlining the curriculum changes and the options outlined below will be sent to all current psychology majors.
 - a. Students who declare psychology as their major after September 1, 2004 will meet the new 2004 psychology curriculum requirements.
 - b. Current psychology majors who have not completed STT 264 by the beginning of Fall term 2004 and who have accumulated less than 48 hours in psychology courses will be required to follow the Fall 2004 curriculum. Their progress towards graduation should not be adversely affected by curriculum changes.
 - c. Current psychology majors who have completed STT 264 and STT 265 or who have completed STT 264 and choose to complete STT 265, may choose to meet the requirements of the Fall 2004 curriculum and to substitute the STT 264 - STT 265 sequence for the General Education, Area I requirement. Alternatively these students may continue under the guidelines of the 2003 curriculum. B.S. students choosing this alternative may substitute PSY 402 for (PSY 400).
- IV. The Chair of the Department of Psychology and members of the committee developing the psychology research methods sequence have met with the Chair and committee members from the Department of Mathematics and Statistics to discuss the content of research methods sequence and the impact of the curriculum for both departments.
- V. The changes in the curriculum are not expected to significantly alter our needs for computer and library resources.

Date: March 2, 2004

To: Thomas Sav, Chair, UCAPC

From: Patricia A. Martin, Dean, College of Nursing and Health

Topic: BEACON track changes

The College of Nursing and Health Curriculum Committee has approved several changes to the BEACON program (*Baccalaureate Entry Accelerates Career Opportunities in Nursing*) based on advice from external consultants. BEACON was originally proposed as a 12-month program, but faculty believe that in order to prepare graduates for success, a 15-month (5 quarter) program of study will allow a better opportunity for integration of program content with a synthesis practicum in the final quarter. Consequently, a fifth quarter has been added to the program of study that is accompanied by a rearrangement of course placements, several course modifications, and the addition of a final clinical course (NUR 445) and clinical seminar (NUR 455). A chart comparing the proposed changes with the courses already approved accompanies the course inventory and modification forms.

These modifications allow BEACON to more closely resemble the generic baccalaureate program and the RN-BSN programs that currently matriculate students for a Bachelor of Science in Nursing degree. This is an important issue for both Ohio Board of Nursing review and accreditation standards from NLNAC and CCNE. The college maintains these three tracks (prelicensure, RN-BSN, and now BEACON) in the same program leading to the Bachelor of Science in Nursing degree.

The proposed changes will not financially disadvantage students who will already be enrolled full time. The reason for the change in credit hours for the clinical courses is to reflect the contact hour ratio in a way that more closely resembles that in other baccalaureate tracks in the college.

Thank you for your consideration of these changes.

CC: Dr. Virginian Nehring, Chair, College of Nursing and Health Curriculum Committee

Summary of proposed changes:

NUR 441

Change corequisite from: NUR 306, 450, 451, 762 to NUR 306, 450, 451, 462

NUR 442

Change course number to NUR 443 to reflect placement in curriculum

Change title from Clinical Nursing 2: Childbearing and Childrearing to Clinical Nursing 3: Childbearing and Childrearing

Change PREREQUISITE: from NUR 306, 441, 450, 451, 762 to NUR 442, 452

Change CREDIT ALLOCATION: from 7 to 9 credit hours (3 credits lecture, 6 credits clinical)

NUR 443

Change course number to NUR 444 to reflect placement in curriculum

Change title from: Clinical Nursing 3: Community and Mental Health to Clinical Nursing 4: Community and Mental Health

Change PREREQUISITE: from Baccalaureate degree; NUR 304, 442, 452, 755, 764 to NUR 443, & 453

Change CREDIT ALLOCATION from 7 to 9 credit hours (3 credits lecture, 6 credits clinical)

NUR 444

Change course number from NUR 444 to NUR 442

Change COURSE TITLE from Clinical Nursing 4: Adults II and High Acuity to Clinical Nursing 2: Adults II and High Acuity

Change PREREQUISITE from Baccalaureate degree; NUR 450, 441, 442, 443, 453, 716, 751, 756 to Baccalaureate degree; NUR 306, 450, 441, 451, 462

Do not change CREDIT ALLOCATION: (already 9 credit hours)

NUR 452

Change course number to NUR 453

Change COURSE TITLE from BEACON Seminar 2 to BEACON Seminar 3

Change PREREQUISITE: NUR 442; CO-REQUISITE: NUR 442 to PREREQUISITE: NUR 442; CO-REQUISITE: NUR 443

NUR 453

Change course number to NUR 454

Change COURSE TITLE: from BEACON Seminar 3 to BEACON Seminar 4

Change from PREREQUISITE: NUR 442; COREQUISITE: NUR 443 to PREREQUISITE: NUR 443; COREQUISITE: NUR 444

NUR 454

Change course number to NUR 452

Change COURSE TITLE: from BEACON Seminar 4 to BEACON Seminar 2

Change from PREREQUISITE: NUR 443; COREQUISITE: NUR 444 to PREREQUISITE: NUR 441; COREQUISITE: NUR 442

New Course inventories for:

NUR 445

NUR 455

Revised Table
 Major Program: Bachelor of Science in Nursing
 Comparison of BEACON and Existing BSN Program of study

Proposed BEACON Program Requirements	Hours	Current BEACON Program Requirements	Hours
Baccalaureate degree including the following pre-requisite courses: English composition Abnormal psychology Intro sociology Growth & development Organic chemistry Biology if not in high school Anatomy Physiology Microbiology Nutrition Statistics	138	Baccalaureate degree including the following pre-requisite courses: English composition Abnormal psychology Intro sociology Growth & development Organic chemistry Biology if not in high school Anatomy Physiology Microbiology Pharmacology Nutrition Statistics	138
III. Nursing Requirements** NUR 450 NUR 755 NUR 751 NUR 462, 762 NUR 441, 451 NUR 304 NUR 306 NUR 442, 452 NUR 443 (WI), 453 NUR 444 (WI), 454 NUR 445*, 455* NUR 716 NUR 750 NUR 756 NUR 763	82	III. Nursing Requirements** NUR 450 NUR 755 NUR 751 NUR 762 NUR 441, 451 NUR 304 NUR 306 NUR 442 (WI), 452 NUR 443 (WI), 453 NUR 444, 454 NUR 716 NUR 750 NUR 756 NUR 763 NUR 764	68
IV. Free Electives	0	IV. Free Electives	0
Total	220	Total	206

* Indicates new course

** Nursing courses are aligned in these columns to indicate course equivalency across programs.

Wright State University-Miami Valley
College of Nursing and Health

COURSE NUMBER: NUR 445

COURSE TITLE: Clinical Nursing 5: Synthesis Practicum

PLACEMENT IN CURRICULUM: BEACON quarter 5

PREREQUISITE: NUR 444, 716, 750, 751, 755, 763

CATALOG DESCRIPTION: Clinical course assisting students to integrate theory and practice; emphasis on complexity of design and management of nursing care for individuals, families and groups. Concentrated clinical practice in selected clinical areas.

CREDIT ALLOCATION: 9 credit hours (3 credits lecture, 6 credits clinical)

COURSE OBJECTIVES:

1. Use concepts and theories from the arts, humanities, nursing and other sciences to provide culturally competent professional nursing care.
2. Plan for the transition from student role to professional practice.
3. Articulate a clear philosophy of nursing that demonstrates a synthesis of major concepts in the curriculum.
4. Collaborate with members of the health team and relevant public to plan, provide, and evaluate health care delivery.
5. Provide culturally competent holistic nursing care to promote health and well-being.
6. Use critical thinking process, clinical judgments and skills to meet complex health needs of individuals, families, or groups.
7. Demonstrate competency in therapeutic nursing interventions necessary to provide professional nursing care.
8. Apply research findings in nursing practice.
9. Communicate effectively with clients.
10. Demonstrate beginning leadership and management skills in health care delivery settings.
11. Apply ethical, legal, and professional standards in nursing practice.
12. Collaborate with clients and other professionals to provide cost effective, high quality health care.
13. Enact the professional nursing role based on the analysis of social, political, cultural, ethical, legal, and economic forces affecting health and nursing.
14. Demonstrate responsibility and accountability to the profession and the community.
15. Demonstrate a commitment to continued learning and ongoing professional development.

TEXTBOOKS: All textbooks from previous courses

TEACHING STRATEGIES: lecture, case studies, clinical experience.

REQUIREMENTS and EVALUATION METHODS: Examinations, papers, presentations, demonstration, clinical performance, written assignments, etc.

TOPICAL OUTLINE: Application of role of professional nurse in clinical setting

CLINICAL EXPERIENCE: Precepted experiences in community, home care or hospital setting with registered nurse preceptor.

Wright State University-Miami Valley
College of Nursing & Health
Fall Quarter

COURSE NUMBER: NUR 455

COURSE TITLE: BEACON Seminar 5

PLACEMENT IN CURRICULUM: Final quarter

COURSE LOCATION AND CLASS TIMES:

PREREQUISITES: NUR 441, 442, 443 and 444; corequisite NUR 445

CATALOG DESCRIPTION: Seminar on synthesis of theory and practice, emphasis on case studies applied to standards of nursing care and professional performance. 2 credits (4 seminar hours).

CREDIT ALLOCATION: 2 credit hours (seminar)

OBJECTIVES

1. Analyze strategies and skills needed for providing culturally competent care based on national health goals.
2. Describe approaches for meeting professional standards when providing culturally competent care.
3. Analyze issues related to professional practice.
4. Analyze strategies and skills needed to care for self as a professional.
5. Examine issues related to cultural competency when providing health care.
6. Examine role of collaborative partners in providing culturally competent health care.

TEXTBOOKS: Previous course texts

TEACHING STRATEGIES: case studies, discussion, standardized testing.

TOPICAL OUTLINE:

Orientation to NCLEX
Case studies (what and how to do)
Clinical decision-making and critical thinking
Research utilization/clinical trials
Professional standards, accountability and responsibility
Current practice issues: ethical/legal, procedures, medication
Communication: delegation, conflict management, advocacy, interdisciplinary
Constructive feedback/effective evaluation
Collaboration: inter and multi disciplinary
Prioritization and time management
Documentation and patient classification systems
Seeking, securing and managing a nursing position
Reality shock

EVALUATION: Pass/Unsatisfactory. Case studies, standardized testing performance

College of Engineering and Computer Science				
Bachelor of Science in Biomedical Engineering (old)				
Curriculum A: Traditional BME Program				
Old BME A (effective until Fall 2004)				
I. General Education Requirements*	66			
Required Substitutions				
Area One	18			
MTH 229, 230				
Area Two	8			
Area Three	8			
Area Four	12			
Area Five	16			
PHY 240/200, 242/202, 244/204				
Area Six	4			
College Component: EGR 190**				
*Courses taken to satisfy GE requirements may not be counted toward the major				
**For incoming freshmen only. Other students should consult a department advisor.				
II. Engineering Requirements	90			
Core Engineering Requirements				
CEG 220	4			
EE 301/302, 321	9			
ISE 301, 307	8			
ME 212, 213, 315	12			
Major Courses				
BME 195, 419, 420, 422, 428, 439, 440, 460	28			
BME 461, 462, 464, 470, 471, 491, 492, 402, 493, 403	29			
III. Related Course Requirements	38			
BIO 112, 278, 279	13			
CHM 121, 122	10			
MTH 231, 232, 233	15			
Total	194			

College of Engineering and Computer Science

Bachelor of Science in Biomedical Engineering (new)

Curriculum A: Traditional BME Program

New BME A effective Fall 2004

I. General Education Requirements*	66		
Required Substitutions			
Area One	18		
MTH 229, 230			
Area Two	8		
Area Three	8		
Area Four	12		
Area Five	16		
PHY 240/200, 242/202, 244/204			
Area Six	4		
College Component: EGR 190**			
*Courses taken to satisfy GE requirements may not be counted toward the major			
**For incoming freshmen only. Other students should consult a department advisor.			
II. Engineering Requirements	97		
Core Engineering Requirements			
CEG 220	4		
EE 301/302, 321	9		
EGR 101	5		
ISE 301, 307	8		
ME 212, 213, 315	12		
Major Courses			
BME 195, 419, 420, 422, 428, 439, 440, 460, 461	32		
BME 462, 463, 464, 470, 471, 491, 492, 402, 493, 403	27		
III. Related Course Requirements	33		
BIO 112, 278, 279	13		
CHM 121, 122	10		
MTH 231, 232	10		
Total	196		

College of Engineering and Computer Science

Bachelor of Science in Biomedical Engineering (old)

Curriculum B: BME Premedical Program

Old BME B (effective until Fall 2004)

I. General Education Requirements*	66	
Required Substitutions		
Area One	18	
MTH 229, 230		
Area Two	8	
Area Three	8	
Area Four	12	
Area Five	16	
PHY 240/200, 242/202, 244/204		
Area Six	4	
College Component: EGR 190**		
*Courses taken to satisfy GE requirements may not be counted toward the major		
**For incoming freshmen only. Other students should consult a department advisor.		
Additional courses for pre-med requirements	23	
CHM 123, 211 & 215, 212 & 216, 213 & 217		
II. Engineering Requirements	78	
Core Engineering Requirements		
CEG 220	4	
EE 301/302, 321	9	
ISE 301	4	
ME 212, 213, 315	12	
Major Courses		
BME 195, 419, 420, 422, 428, 439, 440, 460	28	
BME 461, 462, 464, 491, 492, 402, 493, 403	21	
III. Related Course Requirements	38	
BIO 112, 278, 279	13	
CHM 121, 122	10	
MTH 231, 232, 233	15	
Total	205	
* Students may substitute BME 470/471 for BME 422/439		

College of Engineering and Computer Science

Bachelor of Science in Biomedical Engineering (new)

Curriculum B: BME Premedical Program

New BME B effective Fall 2004

I. General Education Requirements*	66		
Required Substitutions			
Area One	18		
MTH 229, 230			
Area Two	8		
Area Three	8		
Area Four	12		
Area Five	16		
PHY 240/200, 242/202, 244/204			
Area Six	4		
College Component: EGR 190**			
*Courses taken to satisfy GE requirements may not be counted toward the major			
**For incoming freshmen only. Other students should consult a department advisor.			
Additional courses for pre-med requirements	23		
CHM 123, 211 & 215, 212 & 216, 213 & 217			
II. Engineering Requirements	85		
Core Engineering Requirements			
CEG 220	4		
EE 301/302, 321	9		
EGR 101	5		
ISE 301	4		
ME 212, 213, 315	12		
Major Courses			
BME 195, 419, 420, 422, 428, 439, 440, 460	28		
BME 461, 462, 463, 464, 491, 492, 402, 493, 403	23		
III. Related Course Requirements	33		
BIO 112, 278, 279	13		
CHM 121, 122	10		
MTH 231, 232	10		
Total	207		
* Students may substitute BME 470/471 for BME 422/439			

College of Engineering and Computer Science

Bachelor of Science in Industrial and Systems Engineering (old)

Old ISE Undergraduate Program (effective until Fall 2004)

I. General Education Requirements*	66
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
PHY 240/200, 242/202, 244/204	
Area Six	4
College Component: EGR 190**	

*Courses taken to satisfy GE requirements may not be counted toward the major

**For incoming freshmen only. Other students should consult a department advisor.

II. Engineering Requirements	90
Core Engineering Requirements	
BME 419, 440	7
CEG 220	4
EE 301/302, 321	9
ME 212, 213, 220, 315	15
Major Courses	
ISE 195, 301, 302, 306, 307, 451, 465, 470, 471	34
ISE 472, 473, 474, 481, 482, 483	21

III. Related Course Requirements	27
CHM 121	5
MS 307	4
MTH 231, 232, 233, 253	18

IV. Technical Communications Requirement	3
EGR 335	3

V. Elective/Concentration Requirement	11-12
ISE Honors Thesis Track	11-12
ISE 499-9, ISE 499-10, and one technical elective	
Human Computer Interaction Track:	12
PSY 110, ISE 431, ISE 480	
*Information & Computer Systems Track:	11-12
Select three from the following:	
CS 241, 242, 400, 405, and MTH 257	
**Operations Management Track:	12
MS 320, and 2 technical electives	
***Materials Science & Engineering Track:	11-12
ME 370, ME 371, and ME 472	

Total (minimum) **197**

*Minor in Computer Science for Engineers and Scientist available. See CS Dept for additional requirements and details.

**Minor in Operations Management available. See College of Business for requirements and details

***Minor in Materials Science and Engineering available. See ME Dept for additional requirements and details.

College of Engineering and Computer Science
Bachelor of Science in Industrial and Systems Engineering (new)

New ISE Undergraduate Program (effective Fall 2004)

I. General Education Requirements*		66
Required Substitutions		
Area One		18
MTH 229, 230		
Area Two		8
Area Three		8
Area Four		12
Area Five		16
PHY 240/200, 242/202, 244/204		
Area Six		4
College Component: EGR 190**		
*Courses taken to satisfy GE requirements may not be counted toward the major		
**For incoming freshmen only. Other students should consult a department advisor.		
II. Engineering Requirements		97
Core Engineering Requirements		
BME 419, 440		7
EGR 101		5
EE 301/302, 321		9
ME 212, 213, 220, 315		15
Major Courses		
ISE 195, 301, 302, 306, 307, 451, 465, 470, 471		36
ISE 472, 473, 474, 481, 482, 483, 484		25
III. Related Course Requirements		19
CHM 121		5
CEG 220		4
MTH 231, 232		10
IV. Technical Communications Requirement		3
EGR 335		3
V. Elective/Concentration Requirement		12
ISE Honors Thesis Track		12
ISE 499-9, ISE 499-10, and one technical elective		
Human Computer Interaction Track:		12
PSY 110, ISE 431, ISE 480		
*Information & Computer Systems Track:		12
Select three from the following:		
CS 241, 242, 400, 405, and MTH 257		
**Operations Management Track:		12
MS 307, MS 320, and 1 technical elective		
***Materials Science & Engineering Track:		12
ME 370, ME 371, and ME 472		
Total (minimum)		197
*Minor in Computer Science for Engineers and Scientist available. See CS Dept for additional requirements and details.		
**Minor in Operations Management available. See College of Business for requirements and details		
***Minor in Materials Science and Engineering available. See ME Dept for additional requirements and details.		

BS in Electrical Engineering Degree Requirements (old)

General Education Requirements	42
Area One - Communication and Mathematical Skills ENG 101 and 102 - Composition I & II 8 Mathematics – see required math below	
Area Two - The Western Experience HST 101, 102, 103 - American History 9 Great Books of the Western World 3 Fine and Performing Arts 3	
Area Three - The Non-Western World Comparative Studies (CST) 3 Regional Studies (RST) 3	
Area Four - Understanding the Contemporary World Natural Science – see required physics below PSY 105 - Psychology: The Science of Behavior 4 SOC 200 - Social Life 3 PLS 200 - Political Life 3 EC 200 - Economic Life 3	
Required Mathematics / Statistics Courses	31
MTH 229, 230, 231, 232, 233 - Calculus I, II, III, IV & Differential Equations 25	
MTH 253 - Matrix Algebra 3	
STT 363 - Engrng Statistics or ISE 301 - Statistical Mthds for Tstng, Dvlpmnt & Manufctng 3-4	
Required Physics Courses	16
PHY 240/200, 242/202, 244/204 - General Physics 16	
Required Chemistry Courses	5
CHM 121 - Submicroscopic Chemistry 5	
Required Engineering Courses	29
EGR 190, 191 - Fundamentals of Engineering I & II 6	
ME 212 - Statics 4	
ME 213 - Dynamics 4	
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I 4	
CEG 411 - Microprocessor-Based System Design 4	
EGR 335 - Technical Communication for Engineers 3	
ME 315 - Thermodynamics 4	
Required Electrical Engineering Courses	48
EE 140 - Principles of Electrical Engineering 3	
EE 260 - Digital Computer HW/Switching Circuits 4	
EE 301/302 - Circuit Analysis I + Lab 5	
EE 303/304 - Circuit Analysis II + Lab 4	
EE 321, 322 - Linear Systems I, II 8	
EE 331/332 - Electronic Devices + Lab 4	
EE 345 - Electromagnetics 4	
EE 413/414 - Control Systems I + Lab 4	
EE 421 - Communication Theory 4	
EE 431/432 - Electronic Circuits + Lab 4	
EE 425 - Numerical Methods 4	
Engineering Electives – Do Parts A and B	24
Part A: Choose ONE of the following design sequences: Design Sequence I Electronic Circuits 16 EE 444 or 449, EE 451, EE 454, EE 455 Design Sequence II Control Systems 12 EE 415/416, EE 417/420, EE 418 Design Sequence III Communication / Signal Processing 12 EE 435, EE 436, EE 476 Design Sequence IV Electromagnetics 12 EE 346, EE 446, EE 448 Design Sequence V Industrial Design Projects 12 EE 499 - taken for 3 quarters	
Part B: Remainder of the 24 credit hours of engineering electives are to be chosen from 300-400 level engineering classes. Of these 24 total hours of engineering electives, 20 must have an EE prefix.	
Technical Electives	3
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A. Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.	

Total Hours

198

BS in Electrical Engineering Degree Requirements (new)

General Education Requirements		66
Area I: Communication and Mathematical Skills	18	
ENG 101 and 102 - Composition I & II		
MTH 229 and 230 - Calculus I & II		
Area II: Cultural-Social Foundation	8	
History: CLS 150; HST 101, 102, 103		
The Non-Western World: CSE; CST; HLT 202; SW 272; URS 200; RSE; RST		
Area III: Human Behavior	8	
Psychology: PSY 105		
Sociology: SOC 200, 205; WMS 200		
Political Science: PLS 200		
Economics: EC 200		
Area IV: Human Expression	12	
Great Books: CLS / ENG / PHL / REL 204		
Fine and Performing Arts: ART / MUS / TH 214; MUS 290		
Area V: Natural and Physical Sciences	16	
PHY 240/200, 242/202, 244/204		
Area VI: College Component	4	
EGR 190 - Fundamentals of Engineering		
Related Course Requirements		28
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I		
	4	
MTH 231, 232 - Calculus III, IV		
	10	
MTH 253 - Matrix Algebra		
	3	
STT 363 - Engrng Statistics or ISE 301 - Statistical Mthds for Tstng, Dvlpmnt & Manufctrng		
	3-4	
CHM 121 - Submicroscopic Chemistry		
	5	
EGR 335 - Technical Communication for Engineers		
	3	
Engineering Requirements		69
EGR 101 - Introductory Math for Engineering Applications		
	5	
ME 212 - Statics		
	4	
ME 213 - Dynamics		
	4	
CEG 221 or ME 315 Thermodynamics		
	4	
CEG 411 - Microprocessor-Based System Design		
	4	
EE 140 - Principles of Electrical Engineering		
	3	
EE 260 - Digital Computer HW/Switching Circuits		
	4	
EE 301/302 - Circuit Analysis I + Lab		
	5	
EE 303/304 - Circuit Analysis II + Lab		
	4	
EE 321, 322 - Linear Systems I, II		
	8	
EE 325 - Numerical Methods		
	4	
EE 331/332 - Electronic Devices + Lab		
	4	
EE 345 - Electromagnetics		
	4	
EE 413/414 - Control Systems I + Lab		
	4	
EE 421 - Communication Theory		
	4	
EE 431/432 - Electronic Circuits + Lab		
	4	
Engineering Electives – Do Parts A and B		24
Part A:	Choose ONE of the following design sequences:	
	Design Sequence I Electronic Circuits	16
EE 444 or 449, EE 451, EE 454, EE 455		
	Design Sequence II Control Systems	12
EE 415/416, EE 417/420, EE 418		
	Design Sequence III Communication / Signal Processing	12
EE 435, EE 436, EE 476		
	Design Sequence IV Electromagnetics	12
EE 346, EE 446, EE 448		
	Design Sequence V Industrial Design Projects	12
EE 499 - taken for 3 quarters		
Part B:	Remainder of the 24 credit hours of engineering electives are to be chosen from 300-400 level engineering classes. Of these 24 total hours of engineering electives, 20 must have an EE prefix.	
Technical Electives		11
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A.		
Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.		
Total Hours		198

BS in Engineering Physics Degree Requirements (old)

General Education Requirements	42
Area One - Communication and Mathematical Skills	
ENG 101 and 102 - Composition I & II	8
Mathematics – see required math below	
Area Two - The Western Experience	
HST 101, 102, 103 - American History	9
Great Books of the Western World	3
Fine and Performing Arts	3
Area Three - The Non-Western World	
Comparative Studies (CST)	3
Regional Studies (RST)	3
Area Four - Understanding the Contemporary World	
Natural Science - see required physics below	
PSY 105 - Psychology: The Science of Behavior	4
SOC 200 - Social Life	3
PLS 200 - Political Life	3
EC 200 - Economic Life	3
Required Mathematics / Statistics Courses	28
MTH 229, 230, 231, 232, 233 - Calculus I, II, III, IV & Differential Equations	25
MTH 253 - Matrix Algebra	3
Required Chemistry Courses	10
CHM 121 - Submicroscopic Chemistry	5
CHM 122 - Macroscopic Chemistry	5
Required Physics Courses	42
PHY 240/200, 242/202, 244/204 - General Physics	16
PHY 260 - Introduction to Modern Physics	4
PHY 316 - Digital Instrumentation Lab	3
PHY 371 - Analytical Mechanics I	3
PHY 372 - Analytical Mechanics II	3
PHY 450 - Electricity & Magnetism I	3
PHY 451 - Electricity & Magnetism II	3
PHY 452 - Electricity & Magnetism III	4
PHY 420 - Thermodynamics (may substitute ME 315)	3
Required Engineering Physics Courses:	12
EP 494 - Engineering Physics Design Project	2
EP 494 - Engineering Physics Design Project	3
EP 494 - Engineering Physics Design Project	3
PHY 461 - Solid State Physics	4
Required Engineering Courses	10
EGR 190, 191 - Fundamentals of Engineering I & II	6
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I	4
Required Electrical Engineering Courses	33
EE 301/302 - Circuit Analysis I + Lab	5
EE 303/304 - Circuit Analysis II + Lab	4
EE 321, 322 - Linear Systems I, II	8
EE 331/332 - Electronic Devices + Lab	4
EE 413/414 - Control Systems I + Lab	4
EE 415/415 - Control Systems II + Lab	4
EE 421 - Communication Theory	4
Technical Electives	20
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A.	
Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.	
Total Hours	197

BS in Engineering Physics Degree Requirements (new)

General Education Requirements	66
Area I: Communication and Mathematical Skills 18 ENG 101 and 102 - Composition I & II MTH 229 and 230 - Calculus I & II	
Area II: The Western Experience 8 History: CLS 150; HST 101, 102, 103 The Non-Western World: CSE; CST; HLT 202; SW 272; URS 200; RSE; RST	
Area III: The Non-Western World 8 Psychology: PSY 105 Sociology: SOC 200, 205; WMS 200 Political Science: PLS 200 Economics: EC 200	
Area IV: Understanding the Contemporary World 12 Great Books: CLS / ENG / PHL / REL 204 Fine and Performing Arts: ART / MUS / TH 214; MUS 290	
Area V: Natural and Physical Sciences 16 PHY 240/200, 242/202, 244/204	
Area VI: College Component 4 EGR 190 - Fundamentals of Engineering	
Related Course Requirements	32
MTH 231, 232, 233 - Calculus III, IV & Differential Equations	15
MTH 253 - Matrix Algebra	3
CHM 121 - Submicroscopic Chemistry	5
CHM 122 - Macroscopic Chemistry	5
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I	4
Physics Requirements	27
PHY 260 - Introduction to Modern Physics	4
PHY 316 - Digital Instrumentation Lab	3
PHY 371 - Analytical Mechanics I	3
PHY 372 - Analytical Mechanics II	3
PHY 450 - Electricity & Magnetism I	3
PHY 451 - Electricity & Magnetism II	3
PHY 452 - Electricity & Magnetism III	4
PHY 461 - Solid State Physics	4
Engineering Requirements	49-50
EGR 101 - Introductory Math for Engineering Applications	5
EE 301/302 - Circuit Analysis I + Lab	5
EE 303/304 - Circuit Analysis II + Lab	4
EE 321, 322 - Linear Systems I, II	8
EE 331/332 - Electronic Devices + Lab	4
EE 413/414 - Control Systems I + Lab	4
EE 415/415 - Control Systems II + Lab	4
EE 421 - Communication Theory	4
EP 494 - Engineering Physics Design Project	8
PHY 420 - Thermodynamics (may substitute ME 315)	3-4
Technical Electives	23
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A. Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.	

Total Hours

197

ME Undergraduate Program (Old)

Program Requirements:

General Education Requirements*	66
Required Substitutions:	
Area One	18
<i>MTH 229, 230</i>	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
<i>PHY 240/200, 242/202, 244/204</i>	
Area Six	4
<i>College Component: EGR 190**</i>	
* Courses taken to satisfy GE requirements may not be counted toward the major	
** For incoming freshmen only. Other students should consult a department advisor	
Engineering Requirements	91
EGR 153 , ME 199	7
ME 202 , 212 , 213 , 220	15
ME 313 , 315 , 316 , 317 , 318 , 370 , 371	28
ME 408 , 414 , 415 , 460 , 490 , 491	23
EE 301/302 , 321 , 401/402 , 413/414	18
Related Course Requirements	30
CHM 121	5
MTH 231 , 232 , 233 , 253	18
STT 363	3
CS 316	4
Technical Electives	10
At least three courses to be selected from an approved list.	
Total	197

ME Undergraduate Program (New)

Program Requirements:

General Education Requirements*	66
Required Substitutions:	
Area One	18
<i>MTH 229, 230</i>	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
<i>PHY 240/200, 242/202, 244/204</i>	
Area Six	4
<i>College Component: EGR 190**</i>	
* Courses taken to satisfy GE requirements may not be counted toward the major	
** For incoming freshmen only. Other students should consult a department advisor	
Engineering Requirements	95
EGR 101 , 153 , ME 199	7 <u>12</u>
ME 202 , 212 , 213 , 220	15
ME 313 , 315 , 316 , 317 , 318 , 370 , 371	28
ME 408 , 412 , 414 , 415 , 460 , 490 , 491	23 <u>27</u>
EE 301/302 , 321 , 401/402 , 413/414	18 <u>13</u>
Related Course Requirements	30
CHM 121	5
MTH 231 , 232 , 233 , 253	18
STT 363	3
CS 316	4
Technical Electives	10
At least three courses to be selected from an approved list.	
Total	197 <u>201</u>

MSE Undergraduate Program (Old)

Program Requirements:

General Education Requirements	66
Required Substitutions:	
Area One	18
<i>MTH 229, 230</i>	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
<i>PHY 240/200, 242/202, 244/204</i>	
Area Six	4
<i>College Component: EGR 190**</i>	
* Courses taken to satisfy GE requirements may not be counted toward the major	
** For incoming freshmen only. Other students should consult a department advisor	
Engineering Requirements	92
EGR 153 , ME 199	7
ME 202 , 212 , 213 , 220	15
ME 313 , 315 , 370 , 371 , 375 , 376 , 385 , 386	27
ME 470 , 472 , 477 , 479 , 480 , 483 , 492 , 493	30
ME 485 , 486 , 487 , 488 , 489 (select any two)	8
EE 301 , 302	5
Related Course Requirements	23
CHM 121	5
MTH 231 , 232 , 233 , 253	18
Technical Electives	14
At least three courses to be selected from an approved list.	
Total	195

MSE Undergraduate Program (New)

Program Requirements:

General Education Requirements	66
Required Substitutions:	
Area One	18
<i>MTH 229, 230</i>	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
<i>PHY 240/200, 242/202, 244/204</i>	
Area Six	4
<i>College Component: EGR 190**</i>	
* Courses taken to satisfy GE requirements may not be counted toward the major	
** For incoming freshmen only. Other students should consult a department advisor	
Engineering Requirements	97
EGR 101 , 153 , ME 199	7 12
ME 202 , 212 , 213 , 220	15
ME 313 , 315 , 370 , 371 , 375 , 376 , 385 , 386	27
ME 470 , 472 , 477 , 479 , 480 , 483 , 492 , 493	30
ME 485 , 486 , 487 , 488 , 489 (select any two)	8
EE 301 , 302	5
Related Course Requirements	23
CHM 121	5
MTH 231 , 232 , 233 , 253	18
Technical Electives	14
At least three courses to be selected from an approved list.	
Total	195 200

Proposal on General Education Sequence Substitutions/Courses

Currently, advanced introductory science classes (like BIO 111, 112, and 115) can only be taken as a sequence for General Education purposes. A student who takes only one of them cannot count that single class for GE. This creates problems for some students and programs. For example:

- The Social Work program wishes to recommend that its majors take BIO 111 as one of their GE science classes, since the course addresses human biology in more focused a way than other GE science courses do. This would benefit Social Work majors, but it is not allowed under a strict interpretation of the current General Education rules.
- Students who transfer from one college to another (e.g. Science and Mathematics to Liberal Arts) may not count their BIO 111 course toward GE if the sequence is not complete. However, the student who transfers from Sinclair with an equivalent course will have it counted, according to current GE rules.

The following note, to be inserted into the appropriate section of the GE program description, would correct this:

"Sequence substitutions" in the natural sciences must be taken as complete sequences by students whose majors require them. However, after the completion of any course prerequisites and subject to the approval of their college or department, other students may take any approved GE science course to count for GE credit. In cases where students transfer from one college to another, the new college may approve such classes for GE credit after their completion.

Approved by UGEC, March 4, 2004 and unanimously recommended to UCAPC for approval.