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Undergraduate Curriculum and Academic Policy Committee

Minutes of February 11, 2008 Meeting

Present: Candace Cherrington, Jackie Collier, Jean Edwards, Megan Cronenwett (for Daniel Fague), Jeanne Fraker, Roger Fulk, Nathan Klingbeil, Richard Mercer, Bobbe Pohlman, Tom Sav, Cathy Sayer, David Seitz, Karen Wilhoit. Guests: Bonnie Mathies (LC), Cindy Laman (LC).

Approved Minutes of January 14, 2008.

UCAPC Subcommittee Reports

Writing Across the Curriculum Committee (WAC) -- Joe Law, Chair, no report.

University General Education Committee (UGEC) -- Jean Edwards, Chair, no report.

Undergraduate Academic Program Review Committee (UAPRC) -- Susan Carrafiello, Chair. The committee met on February 4 to review the Finance (B.S.B.) and the Financial Services (B.S.B.) programs that were due to the committee last academic year -- the committee had several suggestions for improvement in the two submissions and upon receiving such will approve both reviews. The committee will meet February 18 to review the International Business (B.S.B.) program also due to be submitted last academic year. The committee will again meet on March 3 to begin review of programs submitted on schedule for this academic year -- beginning with the Mathematics programs Other program reviews due this year are as follows.

2007-08 Program Reviews: All Submissions are DUE before February 1, 2008

College of Engineering—all degree programs

General Education

English (B.A.)

English: Integrated Language Arts (B.A.)

Chemistry (B.S., B.A.)

Chemistry Education (B.S.)

Chemistry (A.S., Lake Campus)

Geological Sciences (B.S., B.A.)

Geological Sciences Education (B.A.)

Mathematics (B.S., B.A.)

Mathematics Education (B.S.)

Physics (B.S., B.A.)

Physics Education (B.A.)

The complete schedule of program reviews and the "procedures" for submitting program reviews are available at the following UAPRC Website
<http://www.wright.edu/ucapc/uaprc/uaprc.htm>

Course Inventory and Modification Request

CEHS

Approved Inventories: SLI 383

COBA

Approved Modifications: ACC 307*, ACC 308, ACC 323, ACC 326, ACC 343

* the Accounting Department was informed that the modification may not be necessary being that the current on-line course descriptions already enforce the proposed modification.

COLA

Approved Inventories: CLS 497*, PHL 497*

* as agreed by the college representatives, the titles for the student records were changed by the committee.

COSM

Approved Inventories: SM 101 already in inventory was approved for Area VI GE (see below)

Approved Modifications: CHM 419, MTH 143, MTH 343, MTH 344, MTH 345, MTH 348, MTH 446, STT 342

LC

Inventory: IT 235*, IT 240*, IT 141**, LE 100, LE 101*, LE 102*, LE 103*, LE 104

Modification: TOA 297**

* the committee made minor modifications as agreed upon by the college representatives

** as agreed by the college representatives, the proposals were withdrawn as the the committee noted that IT 141 needed to be submitted as a course modification and that TOA 297 needed to be submitted as a course inventory. However, being that all relevant information was submitted, the committee gave the chair permission to process both proposals upon their receipt.

Program Changes

LC

At this time the committee could not approve the program changes and requested that the LC resubmit such for the UCAPC March meeting by incorporating the required changes per the committee's request and agreed upon by the LC representatives.

Associate of Applied Business Graphics Communication and Design
Associate of Applied Science: Financial Management
Associate of Science: Business Administration

COSM

Approved

[B.S. Physics](#)
[B.S. Dual Major Physics and Mathematics](#)
[B.S. Physics: Geology Option](#)
[B.S. Physics: Biology Option](#)
[B.S. Physics: Computing Option](#)
[B.A. Physics](#)
[B.A. Physics: Physics Licensure Program](#)
[B.A. Physics: Physical Sciences Licensure Program](#)
[B.A. Physics: Life Sciences Licensure Program](#)
[B.A. Physics: Earth Sciences/Physics Licensure Program](#)

General Education Program

Approved

Area VI. College Component: College of Science and Mathematics
 Add: **[SM 101 Scientific Thought and Method](#)**

New Programs

LC

At this time the committee could not approve the program proposals and requested that the LC resubmit such for the UCAPC March meeting by incorporating the required changes per the committee's request and agreed upon by the LC representatives.

Associate of Technical Studies: Law Enforcement Option
Associate of Technical Studies: Management Option
Associate of Technical Studies: Marketing Option
Associate of Arts: Criminal Justice

Adjourned: Next meeting March 10. Winter Quarter Meetings and other Schedules as follows:

UCAPC Meeting	UCAPC Submission Deadline (No Exceptions: receipt after forwards to the next meeting)	Faculty Senate Meeting New Business	Faculty Senate Meeting Old Business
Current Meeting February 11		March 3	April 7
March 10, 1:30 p.m. 210 Rike Hall	February 29, 12:00 Noon	April 7	May 5
April TBA	TBA	May 5	June 2
May TBA	TBA	June 2	Fall 2008

[UCAPC HOME](#)

Undergraduate Curriculum and Academic Policy Committee

Undergraduate Academic Program Review Committee

Responsibilities and Procedures (Approved: Faculty Senate, June 2005)

Complete Schedule of Programs for Review: 2005-06 through 2011-12

Program Reviews: 2010-11

English (B.A.) and English: Integrated Language Arts (B.A.)

Theatre Arts [N.B. may have outside accreditation]

- Acting (B.F.A.)
- Acting—Musical Theatre (B.F.A.)
- Dance (B.F.A.)
- Motion Picture History, Theory, & Criticism (B.A.)
- Motion Picture Production (B.F.A.)
- Theatre Design/Technology/Stage Management (B.F.A.)
- Theatre Studies (B.A.)

Technical Associate Degree Programs:

- Computer-Aided Drafting Design (A.A.S.)
- Financial Management Technology (A.A.B.)
- Information Technology: Graphic Communications and Production Technology (A.A.B.)
- Office Information Systems (A.A.B.) – Legal or Medical Option
- Technical Studies (A.T.S.)

Program Reviews: 2009-10

Liberal Studies (B.A.)

Music

- Music (B.A.)
- Music Education (B.M.)
- Music History & Literature (B.M.)
- Music Performance (B.M.)

Religion (B.A.)

Classical Humanities (B.A.)

Greek (B.A.)

Latin (B.A.)

Philosophy (B.A.)

Associate Degrees (AA & AS):

- Biological Sciences (A.S.)
- Business and Administration (A.S.)
- Chemistry (A.S.)
- Communications (A.A.)
- History (A.A.)
- Liberal Studies (A.A.)
- Psychology (A.A.)
- Social Work (A.A.)

Program Reviews: 2008-09

General Education

Human Resource Management (B.S.B.)
~~Financial Services (B.S.B.) -- see 2006-07~~
French (B.A.)
German (B.A.)
Modern Languages (B.A.)
Spanish (B.A.)
International Studies (B.A.)
~~Liberal Studies (B.A.) -- see 2009-10~~
Economics (B.S.B.)
Economics (B.A.)
African & African American Studies (B.A.)

Program Reviews: 2007-08

College of Engineering—all degree programs
General Education (see 2008-09 above)
~~English (B.A.) -- see 2010-11~~
~~English: Integrated Language Arts (B.A.) -- see 2010-11~~
Chemistry
 Chemistry (B.S., B.A.)
 Chemistry Education (B.S.)
 Chemistry (A.S., Lake Campus)
Geological Sciences (B.S., B.A.)
Geological Sciences Education (B.A.)
Mathematics (B.S., B.A.)
Mathematics Education (B.S.)
Physics (B.S., B.A.)
Physics Education (B.A.)

Program Reviews: 2006-07

Management Information Systems (B.S.B.)
Operations Management (B.S.B.)
Management (B.S.B.)
Finance (B.S.B.)
Financial Services (B.S.B.)
International Business (B.S.B.)
Business and Administration (A.S., Lake Campus)
Music
 Music (B.A.)
 Music History & Literature (B.M.)
 Music Performance (B.M.)
 Music Education (B.M.)
 Report Summary
 National Association of Schools of Music Visitor's Report
 Music Report following WSU Format
Communication
 Communication Studies (B.A.)
 Mass Communication (B.A.)
 Organizational Communication (B.A.)
 Social & Industrial Communication (B.A.)—dual major
Communication (A.A., Lake Campus)
Criminal Justice (B.A.)

[Political Science \(B.S.\)](#)

[Sociology \(B.A.\)](#)

[Anthropology \(B.A.\)](#)

Program Reviews: 2005-06

Nursing (B.S.N.) [N.B. CCNE accreditation 2004-05, thus can use existing self-study, etc.]*

Organizational Leadership (B.S.) (includes Lake Campus)

Rehabilitation Services (B.S.)

Athletic Training (B.S.)

[Psychology \(B.S., B.A.\)](#)

Psychology (A.A., Lake Campus)

[Biological Sciences \(B.S., B.A.\)](#)

Biological Sciences Education (B.S., B.A.)

Biological Sciences (A.S., Lake Campus)

[Accountancy \(B.S.B.\)](#)

[Marketing \(B.S.B.\)](#)

[UCAPC HOME](#)

College of Science and Mathematics

Department: Physics
Major Program: Bachelor of Science in Physics
Minor Program:
Certificate Program:

Current		New	
	Hours		Hours
I. General Education	40	I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204		Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205		Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements		II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16	PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10	PHY 260, 371, 372	10
PHY 315, 316, 322	10	PHY 315, 316, 322	10
PHY 420, 450, 451, 452, 460, 461, 462	25	PHY 420, 450, 451, 452, 460, 461, 462	24
PHY 494 or PHY 499	6	PHY 494	6
III. Related Course Requirements		III. Related Course Requirements	
MTH 229, 230, 231, 232, 233, and 253 or 255	28	MTH 229, 230, 231, 232, 233, and 253 or 255	28
MTH 332, 333	6	MTH 332, 333	6
CHM 121, 122, 123	15	CHM 121/125, 122/126, 123/127	15
EGR 153 or equivalent	4	EGR 153 or equivalent	4
IV. Electives	30	IV. Electives	31
Total	190	Total	190

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Science: Dual Major Physics and Math

Minor Program:

Certificate Program:

Current	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10
PHY 315, 316, 322	10
PHY 420, 450, 451, 452, 460, 461, 462	25
PHY 494 or PHY499	6
III. Math Course Requirements	
MTH 229, 230, 231, 232, 233, 332, 333	35
MTH 255, 355	6
Electives chosen from: MTH 431, 432, 433, 480, 481, 482	8
IV. Related Course Requirements	
CHM 121, 122, 123	15
EGR 153 or equivalent	4
V. Electives	15
Total	190

New	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10
PHY 315, 316, 322	10
PHY 420, 450, 451, 452, 460, 461, 462	24
PHY 494	6
III. Math Course Requirements	
MTH 229, 230, 231, 232, 233, 332, 333	35
MTH 255, 355	6
Electives chosen from: MTH 431, 432, 433, 480, 481, 482	8
IV. Related Course Requirements	
CHM 121/125, 122/126, 123/127	15
EGR 153 or equivalent	4
V. Electives	16
Total	190

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Science in Physics: Geology Option

Minor Program:

Certificate Program:

Current		New	
	Hours		Hours
I. General Education	40	I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204		Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205		Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements		II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16	PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10	PHY 260, 371, 372	10
PHY 315, 316, 322	10	PHY 315, 316, 322	10
PHY 420, 450, 451, 452, 460, 461, 462	25	PHY 420, 450, 451, 452, 460, 461, 462	24
PHY 494 or PHY499	6	PHY494	6
III. Related Course Requirements		III. Related Course Requirements	
MTH 229, 230, 231, 232, 233, 253 or 255	28	MTH 229, 230, 231, 232, 233, 253 or 255	28
MTH 332, 333	6	MTH 332, 333	6
CHM 121, 122, 123	15	CHM 121/125, 122/126, 123/127	15
EGR 153 or equivalent	4	EGR 153 or equivalent	4
IV. Geology Option Requirements		IV. Geology Option Requirements	
GL 251, 253	6	EES 251, 253	6
GL 252, 254	3	EES 252, 254	3
PHY 422, 423, 424	13	PHY 422, 423, 424	13
Electives chosen from: GL 255, 311, 333, 420, 450, 463	12	Electives chosen from: EES 255, 421, 417, 420, 450, 463	13
Total	194	Total	194

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Science in Physics: Biology Option

Current		New	
	Hours		Hours
I. General Education	40	I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204		Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205		Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements		II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16	PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10	PHY 260, 371, 372	10
PHY 315, 316, 322	10	PHY 315, 316, 322	10
PHY 420, 450, 451, 452, 460, 461, 462	25	PHY 420, 450, 451, 452, 460, 461, 462	24
PHY 494 or PHY499	6	PHY 494	6
III. Related Course Requirements		III. Related Course Requirements	
MTH 229, 230, 231, 232, 233, and 253 or 255	28	MTH 229, 230, 231, 232, 233, and 253 or 255	28
MTH 332, 333	6	MTH 332, 333	6
CHM 121, 122, 123	15	CHM 121/125, 122/126, 123/127	15
EGR 153 or equivalent	4	EGR 153 or equivalent	4
IV. Biology Option Requirements		IV. Biology Option Requirements	
BIO 111, 112, 115	12	BIO 111, 112, 115	12
CHM 211, 212	12	CHM 211, 212	12
Electives chosen from: BIO 210,212,213,271,306,312,471,492; BMB 421, 423	11	Electives chosen from: BIO 210,212,213,271,306,312,471,492; BMB 421, 423	12
Total	195	Total	195

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Science in Physics: Computing Option

Minor Program:

Current		New	
	Hours		Hours
I. General Education Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204 Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205	40	I. General Education Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204 Area VI: Choose one EES260, PSY 110, SM205	40
II. Departmental Core Requirements PHY 240/200, 242/202, 244/204 PHY 260, 371, 372 PHY 315, 316, 322 PHY 420, 450, 451, 452, 460, 461, 462 PHY 494 or PHY499	16 10 10 25 6	II. Departmental Core Requirements PHY 240/200, 242/202, 244/204 PHY 260, 371, 372 PHY 315, 316, 322 PHY 420, 450, 451, 452, 460, 461, 462 PHY 494	16 10 10 24 6
III. Related Course Requirements MTH 229, 230, 231, 232, 233, and 253 or 255 MTH 332, 333 CHM 121, 122, 123 EGR 153 or equivalent	28 6 15 4	III. Related Course Requirements MTH 229, 230, 231, 232, 233, and 253 or 255 MTH 332, 333 CHM 121/125, 122/126, 123/127 EGR 153 or equivalent	28 6 15 4
IV. Electives	3	IV. Electives	4
V. Computing Option Requirements CS 240, 241, 242 MTH 257 CS 400 CS 316, 317	12 4 3 8	V. Computing Option Requirements CS 240, 241, 242 MTH 257 CS 400 CS 316, 317	12 4 3 8
Total	190	Total	190

Notes: 1. Students who wish to learn about microprocessors may choose to take further courses in computer engineering, such as CEG 260, 320, and 360. For these students, CEG 430 and 431 may be taken in place of CS 316 and 317

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Arts in Physics

Certificate Program:

Current		New	
	Hours		Hours
I. General Education	40	I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204		Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205		Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements		II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16	PHY 240/200, 242/202, 244/204	16
PHY 260, 371, 372	10	PHY 260, 371, 450	10
PHY 315, 316, 322, 372, 420, 451	19	PHY 315, 316, 322, 372, 420, 451	19
III. Related Course Requirements		III. Related Course Requirements	
MTH 229, 230, 231, 232, 233	25	MTH 229, 230, 231, 232, 233	25
CHM 121, 122, 123	15	CHM 121/125, 122/126, 123/127	15
MTH 253 or 255	3	MTH 253 or 255	3
IV. Electives	27	IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science		Electives outside the College of Science & Mathematics and College of Engineering & Computer Science	
V. General Electives	33	V. General Electives	28
Total	183	Total	183

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Arts in Physics: Physics Licensure Program

Minor Program:

Certificate Program:

Current		New	
	Hours		Hours
I. General Education	40	I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204		Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205		Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements		II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16	PHY 240/200, 242/202, 244/204	16
PHY 107/117, 260, 315, 316, 371, 420, 446, 447, 450	31	PHY 107/117, 260, 315, 316, 371, 420, 446, 447, 450	31
Physics Elective: PHY 322 or 372 or 451	3	Physics Elective: PHY 322 or 372 or 451	3
III. Related Course Requirements		III. Related Course Requirements	
BIO 111, 112, 115	12	BIO 111, 112, 115	12
CHM 121, 122, 123	25	CHM 121/125, 122/126, 123/127	15
GL 251/252, 253/254, 255/256	13.5	EES 251/252, 253/254, 255/256	13.5
MTH 229, 230, 231, 232, 233	25	MTH 229, 230, 231, 232, 233	25
MTH 253 or 255	3	MTH 253 or 255	3
IV. Electives	27	IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)		Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	
Total	185.5	Total	185.5

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Arts Physics: Physical Sciences Licensure Program

Minor Program:

Certificate Program:

Current	Hours
I. General Education Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204 Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205	40
II. Departmental Core Requirements PHY 240/200, 242/202, 244/204 PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450 Physics elective: PHY 322 or 372 or 451	16 31 3
III. Related Course Requirements BIO 111, 112 CHM 121, 122, 123 CHM 211/215, 212/216, 213/217, 312/314, 451 GL 251/252, 253/254, 255/256 Math 253 or 255 MTH 229, 230, 231, 232, 233	8 15 28.5 13.5 3 25
IV. Electives Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	27
Total	210

New	Hours
I. General Education Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204 Area VI: Choose one EES260, PSY 110, SM205	40
II. Departmental Core Requirements PHY 240/200, 242/202, 244/204 PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450 Physics elective: PHY 322 or 372 or 451	16 31 3
III. Related Course Requirements BIO 111, 112 CHM 121/125, 122/126, 123/127 CHM 211/215, 212/216, 213/217, 312/314, 451 GL 251/252, 253/254, 255/256 MTH 253 or 255 MTH 229, 230, 231, 232, 233	8 15 28.5 13.5 3 25
IV. Electives Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	27
Total	210

Notes:

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Arts in Physics: Life Sciences/Physics Licensure Program

Minor Program:

Certificate Program:

Current	
	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450	31
Physics elective: PHY 322 or 372 or 451	3
III. Related Course Requirements	
BIO 111, 112, 115, 210, 211, 212, 213, 230, 231, 492	36
CHM 121, 122, 123	15
GL 251/252	4.5
MTH 229, 230, 231, 232, 233	25
MTH 253 or 255	3
IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	
Total	200.5

New	
	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450	31
Physics elective: PHY 322 or 372 or 451	3
III. Related Course Requirements	
BIO 111, 112, 115, 210, 211, 212, 213, 230, 231, 492	36
CHM 121/125, 122/126, 123/127	15
EES 251/252	4.5
MTH 229, 230, 231, 232, 233	25
MTH 253 or 255	3
IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	
Total	200.5

College of Science and Mathematics

Department: Physics

Major Program: Bachelor of Arts in Physics: Earth Sciences/Physics Licensure
Program

Minor Program:

Certificate Program:

Current	
	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one AFS 200, ATH 241, ATH 242, HST 220, HST 221, PHL 200, FIN 205, EH 205, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450	31
Physics elective: PHY 322 or 372 or 451	3
III. Related Course Requirements	
BIO 112	4
CHM 121, 122, 123	15
GL 201 or 304, 251/252, 253/354, 255/256, 309, 311 or 420, 401, 485, 486 or 342 or 399 (four cr.), 499 (Oceanography)	43.5
MTH 229, 230, 231, 232, 233	25
MTH 253 or 255	3
IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	
Total	207.5

New	
	Hours
I. General Education	40
Required Substitutions: MTH 229 and 230 PHY 240/200, 242/202, 244/204	
Area VI: Choose one EES260, PSY 110, SM205	
II. Departmental Core Requirements	
PHY 240/200, 242/202, 244/204	16
PHY 107/117, 260, 315, 316 371, 420, 446, 447, 450	31
Physics elective: PHY 322 or 372 or 451	3
III. Related Course Requirements	
BIO 112	4
CHM 121/125, 122/126, 123/127	15
EES 201 or 304, 251/252, 253/354, 255/256, 309, 311 or 420, 401, 485, 486 or 342 or 399 (four cr.), 499 (Oceanography)	43.5
MTH 229, 230, 231, 232, 233	25
MTH 253 or 255	3
IV. Electives	27
Electives outside the College of Science & Mathematics and College of Engineering & Computer Science (must include ED 221, 223, 301, 303, EDS 333)	
Total	207.5

MASTER SYLLABUS GUIDELINES

1. Course Information

College: College of Science and Mathematics
Department: College of Science and Mathematics
Course Title: Scientific Thought and Method
Course Designation and Number: SM 101
GE Area(s): (Lists all area(s) that apply.)

VI: College Component

Writing Intensive: Yes No

For WI Courses: All sections Selected Sections are WI.

Method(s) of Instruction: Lecture
 Discussion
 Web-enhanced
 Web-only
 Other (Explain below.)

Includes Lab: Yes No

Lab incorporated into lecture/lab meet times

Prerequisites: (Specify or state 'None'.) MPL level 3 or higher or DEV 095

2. Objectives

GE Program Objectives:

- ? Sharpen critical thinking, problem solving, and communication skills;
- ? Learn about the aesthetic, ethical, moral, social, and cultural dimensions of human experience needed for participation in the human community;
- ? Increase knowledge and understanding of the past, of the world in which we live, and of how both past and present have an impact on the future.

GE Area VI Objectives:

- ? Understand the experimental basis of scientific inquiry
- ? Understand the theoretical, practical, creative and cultural dimensions of scientific inquiry
- ? Discuss some of the fundamental theories underlying modern science
- ? Understand the dynamic interaction between society and the scientific enterprise
- ? Communicate with individuals who are the science and mathematics majors

Course Objectives and GE Learning Outcomes:

This course has been designed specifically for science and math majors in an effort to increase student retention, motivation, and success. Students will have the opportunity to explore the physical and natural sciences through a small number of modern day multidisciplinary skills-based units. Students will develop an understanding of how the sciences relate to one another and to everyday life. The course will enable students to sharpen critical thinking, problem solving, and communication skills; all of which are important in performing scientific inquiry. Also integrated within the curriculum will be opportunities for students to strengthen basic math skills. Emphasis will be placed on the experimental basis of scientific inquiry, model and theory building, and the ethical uses of the results of scientific endeavors.

For WI Courses: WAC Objectives

Students will be required to keep detailed notebooks of all activities and experiments performed during class, which falls under the informal writing requirement for WAC. In addition, formal writing will be assigned in the form of three lab reports assigned during the quarter.

3. Suggested Course Materials

None – all materials provided to student as part of course.

4. Suggested Methods of Evaluation

Exams: These announced evaluations will be scattered throughout the course. The evaluations will be based on scientific reasoning, rather than the memorization of facts and formulas.

Writing Assignments: Students will be assigned several writing assignments throughout the quarter which may include lab reports and/or critiques of scientific articles. Details and supporting information for these assignments will be given in class.

Weighted Grade Distribution	Percent
Attendance/Participation	10%
Homework	20%
Exams 1, 2, 3	30%
Writing Assignments/lab manual	40%

5. Grading Policy

(This section is to be reproduced on all master syllabi exactly as it appears here.)

All GE courses are graded A-F.

WI component is graded Pass/Unsatisfactory.(Include only for WI courses)

Grading Scale:

A (90% and above)

B (80%-89%)

C (70%-79%)

D (60%-69%)

F (59% and under)

6. Suggested Weekly Course Outline Including Typical Assignments

Tentative Course Schedule:

Weeks 1-3	Observation, Measurement, Classification ? Rock Classification ? Measuring the Size of Large Objects ? Measuring the Size of Small Objects ? Exam 1	Exam 3: (during Finals Week) Date and time: TBA
Weeks 4-7	Forming and Testing Hypotheses ? Genetically Modified Foods: How Can You Tell? ? What Factors Affect Chemical Reaction Rates? ? Population Growth of Bacteria ? Exam 2	Student Code of Ethics Please understand the policies of the university. They will be adhered to in this course.
Weeks 8-10	Developing and Applying Models ? Tree Biometrics ? Conceptual Modeling of Groundwater Flow ? How Green Are You? ? Exam 3	

7. Other (This section is to be reproduced on all master syllabi exactly as it appears here.)

Syllabus distributed to students should employ the format approved by UCAPC and must include:

- Instructor name, office hours, and contact information
- Office of Disability Services information
- Information on how grades will be determined
- Attendance policy