Academic Notes

May 19, 2008 **AN 2007-2008**

ARTICULATION AGREEMENTS

Program articulation agreements between Indiana State University and our two-year partner institutions allow students to complete a specific associate degree program at another institution and receive credit toward a specific bachelor's degree program at Indiana State University. Each agreement details the transfer courses accepted for credit at ISU, the courses needed to complete the bachelor's degree, and any other requirements or guidelines that apply. The following agreements have recently been approved:

Ivy Tech Community College
AS Design Technology - Architecture Specialty to BS Mechanical Engineering Technology
4/30/2008

AAS Design Technology - Architecture Specialty to BS Mechanical Engineering Technology
4/30/2008

AS Design Technology - Mechanical Specialty to BS Mechanical Engineering Technology
4/30/2008

AAS Design Technology - Mechanical Specialty to BS Mechanical Engineering Technology
4/30/2008

AS Design Technology - CADD-M Specialty to BS Mechanical Engineering Technology
4/30/2008

AAS Design Technology - CADD-M Specialty to BS Mechanical Engineering Technology
4/30/2008

AS Automotive Technology to BS Automotive Technology Management
4/30/2008

AAS Automotive Technology to BS Automotive Technology Management
4/30/2008

AS Electronics Technology to BS Electronics Technology
4/30/2008

AAS Human Resource Management to BS Human Resource Development
4/30/2008

AAS Advance Manufacturing to BS Advanced Manufacturing Management
4/30/2008

AAS Industrial Technology - Machining Concentration to BS Advanced Manufacturing Management
4/30/2008

AS in any technology field to BS Technology Management
4/30/2008

AAS in any technology field to BS Technology Management
4/30/2008

ACADEMIC NOTES PUBLICATION SCHEDULE FOR SUMMER 2008

Below is the circulation schedule for the electronic copy of *Academic Notes* through August 11, 2008. **All submissions for inclusion in Academic Notes are due in the Office of Academic Affairs no later than 10:00 a.m. on the Wednesday prior to the distribution of Academic Notes on the following Monday. Submissions must be in hard copy along with an e-mail, disk, or CD with the same information. The electronic version must be formatted either in Word with pages with signatures scanned and inserted as a picture OR PDF saved as text and image. (Do NOT send PDF just saved as an image.) Information submitted to Academic Notes that is not accompanied by an electronic version or that is incomplete or unusable will be returned to the appropriate office. Academic Notes is available using Acrobat Reader at http://www.indstate.edu/acad-aff/79.html**

ACADEMIC NOTES PUBLICATION SCHEDULE FOR SUMMER 2008

Deadline for Items	Issue Date
May 28	June 2
May 11	June 16
May 25	June 30
July 9	July 14
July 23	July 28
August 6	August 11

THESES, DISSERTATIONS, AND RESEARCH PROJECTS

COLLEGE OF ARTS AND SCIENCES: Geography, Geology, and Anthropology

Nathan Scholl will defend his thesis entitled *Geoarchaeological and Paleolandscape Reconstructions in the Lower Ohio River Valley: Late Wisconsin and Early Holocene Landforms in Knob Creek Bottom* on June 6, 2008, at 12:00 p.m., in the Science Building, room 110 (Drummond Room). Members of his committee are: Dr. Russell Stafford, Chairperson; Dr. Greg Bierly; and Dr. James Speer.

ACALOG NOTE

The format for curriculum proposals has changed to correspond with the structure of Acalog, the new version of the electronic catalogs. Some proposals will be published under the old structure and some under the new structure during this transition period.

Improved Electronic Catalog

The new electronic version of the undergraduate catalog is posted at http://www.indstate.edu/academics/catalogs.htm. Some advantages of the new format are:

- It is easily searchable and searchable from the internet
- It is easier for students and advisors to find and choose the courses students need
- Students create a personal portfolio of courses in which they are interested
- Links to information such as department web sites, advising information, and video clips can easily be added
- Every page can easily be printed, decreasing the number of printed catalogs

If you have questions, please contact Karen Schmid, extension 3662.

CURRICULUM

INDEX

UNDERGRADUATE PROPOSALS

NEW COURSES

COLLEGE OF ARTS AND SCIENCES: Biology

BIO 487 – Bioinformatics
3 credits

Provides hands-on training in bioinformatics. Students will acquire the theoretical knowledge and practical skill required to effectively utilize essential network-based bioinformatics programs and databases, typically accessed from standard laptop computers. Training includes experience with high performance parallel computing and an introduction to problem-solving in bioinformatics using the Perl programming language.
Prerequisites: CHEM 106, BIO 102, or consent of instructor.
Note: [Also listed as CHEM 487.] Open to graduate students. Graduate students are required to do additional work of a research nature.
Preferred effective term: Fall 2008

COLLEGE OF ARTS AND SCIENCES: Chemistry

CHEM 487 – Bioinformatics
3 credits

Provides hands-on training in bioinformatics. Students will acquire the theoretical knowledge and practical skill required to effectively utilize essential network-based bioinformatics programs and databases, typically accessed from standard laptop computers. Training includes experience with high performance parallel computing and an introduction to problem-solving in bioinformatics using the Perl programming language.
Prerequisites: CHEM 106, BIO 102, or consent of instructor.
Note: [Also listed as BIO 487.] Open to graduate students. Graduate students are required to do additional work of a research nature.
Preferred effective term: Fall 2008

CHEM 495 - Internship in Chemistry
1-4 credits

Internships of a chemistry nature, intended for juniors and seniors. Students desiring credit for internship work must have the internship approved by the department before enrollment and must agree to requirements for the course. Open to chemistry majors and minors who have completed CHEM 352 and 352L.
Note: Repeatable with approval from department. A maximum of four hours may be counted as advanced electives toward the major.
Preferred effective term: Fall 2008

COLLEGE OF ARTS AND SCIENCES: Theater

THTR 102 - Introduction to Technical Theater
3 credits

This course is an introduction to the language, tools, techniques and procedures utilized by theater artists in contemporary production environments, including theater organizations, production spaces, technical practices, fundamentals of scenery, properties, costumes, lighting, sound, stage management, technical drawing principles and safety policies and procedures.
Preferred effective term: Fall 2008

THTR 274 - Technical Theater
3 credits

Introduces concepts through demonstration and practical application using software in a classroom setting. The course gives students hands on experience using industry standard design software and introduce them to the concepts of lighting technology, sound design and media production.
Preferred effective term: Fall 2008

THTR 375 - Set and Costume Design
3 credits

Students will build upon design skills introduced in Theatre 275 to develop either costume or scenic design for an assigned script. The course may be taken twice for credit.
Prerequisites: THTR 191, 275.
Preferred effective term: Fall 2008

THTR 451 - Fusion After School
3 credits

This course will be a Discipline-Based Service Learning Course in the Department of Theater. Recommended for students in a teaching discipline, this course will involve students in a performing arts after school program in a local middle school.
Note: Repeatable once for credit.
Preferred effective term: Fall 2008

THTR 483 - Dramaturgy
3 credits

This course examines the fundamental tenets of dramaturgy as it is practiced in the contemporary theater. The course covers production dramaturgy, including methods for historical and cultural research and script editing; structural dramaturgy, including dramatic or theatrical text analysis; and institutional dramaturgy, including script evaluation, season planning, and audience outreach.
Prerequisite: THTR 191.
Preferred effective term: Fall 2008

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Chemistry

CHEM 340 - Techniques in Inorganic Chemistry
2 hours

A series of laboratory experiments illustrating a variety of synthetic techniques for making and studying inorganic compounds, with a lecture component for discussion of techniques and descriptive chemistry.
Prerequisite: 355 or equivalent.
Note: Unless otherwise stated, all chemistry courses require laboratory work.

Change prerequisites to:

CHEM 340 - Techniques in Inorganic Chemistry
2 credits

A series of laboratory experiments illustrating a variety of synthetic techniques for making and studying inorganic compounds, with a lecture component for discussion of techniques and descriptive chemistry.
Prerequisites: CHEM 352, 352L. CHEM 355 is recommended.
Preferred effective term: Fall 2008

CHEM 400 - Senior Seminar in Chemistry
1 hour

A discussion of general topics in the main sub-disciplines in chemistry. Leading scientific journals and newspapers will be used as resources. Professional activities and responsibilities of chemists are reviewed.
Note
Unless otherwise stated, all chemistry courses require laboratory work.

Change prerequisites to:

CHEM 400 - Senior Seminar in Chemistry
1 credit

A discussion of general topics in the main sub-disciplines in chemistry. Leading scientific journals and newspapers will be used as resources. Professional activities and responsibilities of chemists are reviewed.
Prerequisite: Senior standing (greater than 93 total credits earned.)

Preferred effective term: Fall 2008

CHEM 465 - Survey of Physical Chemistry
4 hours

Basic concepts of thermodynamics, kinetics, and molecular structure, with emphasis on biological applications.
Prerequisite: CHEM 106.
Note:Does not count toward the A.C.S.-Certified chemistry major. Open to graduate students. Graduate students are required to do additional work of a research nature. Unless otherwise stated, all chemistry courses require laboratory work.

Change prerequisites to:

CHEM 465 - Survey of Physical Chemistry
4 credits

A survey of basic gas laws, kinetic molecular theory of gases, thermodynamics, mass transport, electrolyte and non-electrolyte solutions, equilibrium, chemical kinetics, quantum mechanics, and atomic structure. Does not count toward the ACS-certified chemistry major.
Prerequisites: CHEM 106 and 106L; MATH 131; PHYS 106 or 206.
Preferred effective term: Fall 2008

CHEM 499 - Introduction to Research in Chemistry
1-4 hours

Selected problems for laboratory or literature research.
Prerequisite: CHEM 461 or 465.
Note: Consent of instructor must be obtained. Unless otherwise stated, all chemistry courses require laboratory work.

Change to repeatable, description and prerequisites to:

CHEM 499 - Introduction to Research in Chemistry
1-4 credits

This course consists of an original investigative project directed by a faculty member, culminating with a formal presentation and written report. The topic and credit hours must be arranged in advance. Participation in departmental colloquia and seminars is required. It may be repeated for credit.
Preferred effective term: Fall 2008

COLLEGE OF ARTS AND SCIENCES: Criminology and Criminal Justice

CRIM 285 - Introduction to Criminalistics
3 hours

A study of the application of the physical, biological, medical, behavioral, and computer sciences to crime investigation and detection. The use that is made of hairs, fibers, blood stains, paints, scrapings, weapons, polygraphs, voice prints, computers, photography, prints, and chemicals in the detection of crime will be considered.
Prerequisite: CRIM 200 or consent of instructor.

Change number to:

CRIM 385 - Introduction to Criminalistics
3 hours

A study of the application of the physical, biological, medical, behavioral, and computer sciences to crime investigation and detection. The use that is made of hairs, fibers, blood stains, paints, scrapings, weapons, polygraphs, voice prints, computers, photography, prints, and chemicals in

the detection of crime will be considered.
Prerequisite: CRIM 200 or consent of instructor.
Preferred effective term: Spring 2009

COLLEGE OF ARTS AND SCIENCES: Physics

PHYS 385 - Topics in Physics
1-3 hours

Topics and hours to be arranged with members of the physics faculty.
Note
Specific course title will be listed when course is scheduled.

Change number and description to:

PHYS 469(A-G) - Topics in Physics
1-3 credits

The study of a selected topic in physics. The course may be repeated for credit when the topic is different.
Preferred effective term: Spring 2009

COLLEGE OF ARTS AND SCIENCES: Physics

PHYS 465 - Selected Topics in Astronomy and Astrophysics
3 hours

Selected topics to cover specialized areas in astronomy and astrophysics. Topics may vary based on current targets of opportunity of interest and will include, but will not be limited to: comets, synthetic light curves of binary stars, celestial mechanics, optics, and stellar physics.
Prerequisites: PHYS 310, 355.
Note: Open to graduate students. Graduate students are required to do additional work.

Change description to:

PHYS 465 - Introduction to Astrophysics
3 credits

A quantitative survey of topics in astrophysics, which typically includes celestial mechanics, radiation, stellar physics, galaxies, gravity, and cosmology.
Prerequisites: PHYS 310, 355.
Note: Open to graduate students. Graduate students are required to do additional work.

COLLEGE OF ARTS AND SCIENCES: Theater

THTR 395 - History of Theater I: The Greeks to Moliere
3 hours

A survey of the history and literature of the classical theater from the Greeks to Moliere.
General Education Credit
[GE2000: Literary, Artistic, and Philosophical Studies-Elective]

Change title and description to:

THTR 395 History of Theater I: The Greeks to Medieval Kabuki Theater
3 credits

A survey of the history and literature of the classical theater from the ancient Greeks to medieval Japanese Kabuki.
General Education Credit:
GE2000: Literary, Artistic, and Philosophical Studies-Elective]

Preferred effective term: Fall 2008

THTR 396 - History of Theater II: The Restoration to Shaw
3 hours

A survey of history and literature from the Restoration to Shaw.
General Education Credit:
[GE2000: Literary, Artistic, and Philosophical Studies-Elective]

Change title and description to:

THTR 396 - History of Theater II: The Spanish Golden Age through Shaw
3 credits

A survey of history and literature from the Spanish Golden Age through Shaw.
General Education Credit:
[GE89: C3; GE2000: Literary, Artistic, and Philosophical Studies–Elective]
Preferred effective term: Fall 2008

THTR 397 - History of Theater III: The Early Avant-garde to the Present
3 hours

A survey of history and literature of the Contemporary and Avant-garde theater.

Change title and description to:

THTR 397 - History of Theater III: Twentieth Century American Theater
3 credits

A survey of history and literature of the 20th Century Theater.
Preferred effective term: Fall 2008

THTR 450 - Playwriting
3 hours

Approaches to writing for the theater.

Note
Students may enroll twice for credit. Open to graduate students. Graduate students are required to do additional work of a research nature.

Change number, and title and description to:

THTR 252 - Playwriting
3 credits

Approaches to writing for the theater.
Note: Students may enroll twice for credit.
Preferred effective term: Fall 2008

COLLEGE OF EDUCATION: Elementary, Early, and Special Education

ELED 485 - Practicum: Working with the Disabled Reader
3 hours

Individual work with a pupil with emphasis on diagnostic and prescriptive teaching techniques. Required in the reading minor after basic reading courses (397 and 398 or their equivalents) have been completed.

Change title to:

ELED 485 – Literacy Intervention Strategies
3 credits

Individual work with a pupil with emphasis on diagnostic and prescriptive teaching techniques.
Prerequisites
Required in the reading minor after basic reading courses (397 and 398 or their equivalents) have been completed.
Preferred effective term: Fall 2008

COURSE BANKING

COLLEGE OF ARTS AND SCIENCES: Theater

THTR 176
THTR 388
THTR 456
THTR 473
THTR 477
Preferred effective term: Fall 2008

COURSE ELIMINATIONS

COLLEGE OF ARTS AND SCIENCES: Theater

THTR 176L
Preferred effective term: Fall 2008

PROGRAM SUSPENSION

COLLEGE OF EDUCATION: Elementary, Early, and Special Education

Early Childhood Education Major (124 semester hours minimum)
CIP Code: 131210 Major Code: 8540

Brief Summary:

Because of licensing changes, it is no longer required to have a Early Childhood license to teach kindergarten. In addition, a bachelor's degree in Early Childhood is not required for pre-school settings. As a result, there are no longer students to enroll in the major.

Proposed Catalog Copy:

None.
Preferred effective term: Fall 2008

GRADUATE PROPOSALS

NEW COURSES

COLLEGE OF ARTS AND SCIENCES: Biology

BIO 587 – Bioinformatics
3 credits

Provides hands-on training in bioinformatics. Students will acquire the theoretical knowledge and practical skill required to effectively utilize essential network-based bioinformatics programs and databases, typically accessed from standard laptop computers. Training includes experience with high performance parallel computing and an introduction to problem-solving in bioinformatics using the Perl programming language.
Prerequisites: CHEM 106, BIO 102, or consent of instructor.
Note: [Also listed as CHEM 587.] Open to graduate students. Graduate students are required to do additional work of a research nature.
Preferred effective term: Fall 2008

COLLEGE OF ARTS AND SCIENCES: Chemistry

CHEM 587 – Bioinformatics
3 credits

Provides hands-on training in bioinformatics. Students will acquire the theoretical knowledge and practical skill required to effectively utilize essential network-based bioinformatics programs and databases, typically accessed from standard laptop computers. Training includes experience with high performance parallel computing and an introduction to problem-solving in bioinformatics using the Perl programming language.
Prerequisites: CHEM 106, BIO 102, or consent of instructor.
Note: [Also listed as BIO 587.] Open to graduate students. Graduate students are required to do additional work of a research nature.
Preferred effective term: Fall 2008

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Political Science

PSCI 699 - Master's Thesis
6 hours

Thesis on research in political science.

Repeatable to a maximum of 6 hours. Change credit hours to:

PSCI 699 - Master's Thesis
6 hours

Thesis on research in political science.
Preferred effective term: Fall 2008

COLLEGE OF EDUCATION: Curriculum, Instruction, and Media Technology

CIMT 641 - Networking and Facilities

3 hours

Students will research and design communication networks and facilities that will vary in size from

classroom to international levels.

Change description to:
CIMT 641 - Networking and Facilities

3 credits

This course covers the management, design, and support of educational facilities as well as the networking (infrastructure) that ties the learning environment together. The course focuses on the learning space as a change agent for the learning environment and how student and faculty practice impact learning space design and support.

Preferred effective term: Fall 2008

COLLEGE OF EDUCATION: Elementary, Early, and Special Education

ELED 585 - Practicum: Working with the Disabled Reader

3 hours

Individual work with a pupil with emphasis on diagnostic and prescriptive teaching techniques.
Prerequisites
Required on the reading minor after basic reading courses (Elementary Education 397 and 398 or their equivalents) have been completed.

Change title to:
ELED 585 – Literacy Intervention Strategies

3 credits

Individual work with a pupil with emphasis on diagnostic and prescriptive teaching techniques.
Prerequisites
Required in the reading minor after basic reading courses (397 and 398 or their equivalents) have been completed.

Preferred effective term: Fall 2008

COURSE REACTIVATION

COLLEGE OF EDUCATION: Elementary, Early, and Special Education

SPED 591 - Methods with the Gifted

3 credits

General and specific techniques and methods appropriate for encouraging and motivating development and learning in gifted children.

Preferred effective term: Summer II 2008

UNDERGRADUATE APPROVALS

NEW COURSES

UNIVERSITY HONORS PROGRAM

GH 199 - Summer Honors Seminar
1-2 credits

Students will be introduced to an exciting academic topic through a combination of classroom lecture and discussion and hands-on learning during a one to two-week course. Topics vary across challenging subjects, from traditional arts and sciences to professional disciplines.

Preferred effective term: Fall 2008

PROGRAM REVISIONS

COLLEGE OF ARTS AND SCIENCES: Chemistry

Chemistry Major (69 semester hours, including extra departmental requirements)
CIP Code: 400501 Major Code: 0421

Brief Summary:

The Department of Chemistry wishes to change the emphases in Biochemistry and Business to concentrations in order to be able to track student enrollment.
Student Learning:

There is no change to the curriculum and will not affect students in any way.

Proposed Catalog Copy:

Chemistry Major (69 semester hours, including extra departmental requirements)
CIP Code: 400501 Major Code: _____

Chemistry Major

(69 semester hours, including extra departmental requirements)

Core Curriculum (31 hours):

Required Chemistry:

- CHEM 105 - General Chemistry I 3 hours
- CHEM 105L - General Chemistry I Laboratory 1 hour
- CHEM 106 - General Chemistry II 3 hours
- CHEM 106L - General Chemistry II Laboratory 1 hour
- CHEM 321 - Analytical Chemistry 4 hours
- CHEM 351 - Organic Chemistry I 3 hours
- CHEM 351L - Organic Chemistry Laboratory I 1 hour
- CHEM 352 - Organic Chemistry II 3 hours
- CHEM 352L - Organic Chemistry Laboratory II 1 hour
- CHEM 355 - Organic Chemistry Laboratory Techniques 2 hours
- CHEM 400 - Senior Seminar in Chemistry 1 hour
- CHEM 421 - Instrumental Methods of Analysis 4 hours

Required Mathematics:

- MATH 131 - Calculus I 4 hours

Approved Advanced Elective Courses:

Chemistry:

- Any 300- or 400-level course, with the exception of 330 and 399.
  A maximum of 4 hours of 499 may be counted.

Geology:

- GEOL 380 - Mineralogy 3 hours
- GEOL 382 - Petrology 3 hours
- GEOL 481 - Geochemistry 3 hours.

Biology:

- BIO 330 - General Physiology 3 hours
- BIO 330L - General Physiology Laboratory 1 hour
- BIO 374 - Cellular and Microbial Biology 3 hours
- BIO 374L - Cellular and Microbial Biology Laboratory 1 hour
- BIO 380 - Genetics 3 hours
- BIO 380L - Genetics Laboratory 1 hour
- BIO 408 - General Immunology 3 hours.
- BIO 408L - General Immunology Laboratory 1 hour
- BIO 476 - Microbial Physiology 3 hours
- BIO 482 - Recombinant DNA 2 hours
- BIO 482L - Recombinant DNA Laboratory 2 hours

Mathematics:

- MATH 333 - Differential Equations 3 hours
- MATH 341 - Probability and Statistics 3 hours
- MATH 413 - Linear Algebra I 3 hours

Physics:

- Any 300- or 400-level course that carries a prerequisite of 206 or higher.

American Chemical Society Certified Concentration (38 hours):

Required Courses:

- 31 hours of the core curriculum

Chemistry:

- CHEM 340 - Techniques in Inorganic Chemistry 2 hours
- CHEM 431 - Biochemistry I 3 hours
- CHEM 440 - Advanced Inorganic Chemistry 3 hours
- CHEM 461 - Physical Chemistry I 4 hours
- CHEM 461L - Experimental Physical Chemistry I 1 hour
- CHEM 462 - Physical Chemistry II 4 hours
- CHEM 462L - Experimental Physical Chemistry II 1 hour

Mathematics:

- MATH 132 - Calculus II 4 hours

Physics:

- PHYS 205 - University Physics I 4 hours
- PHYS 205L - University Physics I Laboratory 1 hour
- PHYS 206 - University Physics II 4 hours
- PHYS 206L - University Physics II Laboratory 1 hour

Electives:

- 6 hours of advanced course work from approved electives listed above.

Biochemistry Concentration (38 hours):

Required Courses:

- 31 hours of the core curriculum

Biology:

- BIO 101 - Principles of Biology I 3 hours
- BIO 101L - Principles of Biology I Laboratory 1 hour
- BIO 102 - Principles of Biology II 3 hours
- BIO 102L - Principles of Biology II Laboratory 1 hour

Chemistry:

- CHEM 431 - Biochemistry I 3 hours
- CHEM 431L - Biochemistry Laboratory 1 hour
- CHEM 432 - Biochemistry II 3 hours

- CHEM 465 - Survey of Physical Chemistry 4 hours
- CHEM 465L - Survey of Physical Chemistry Laboratory 1 hour

Physics:

- PHYS 105 - General Physics I 3 hours
- PHYS 105L - General Physics I Laboratory 1 hour
- PHYS 106 - General Physics II 3 hours
- PHYS 106L - General Physics II Laboratory 1 hour

Electives:

- 10 hours of advanced electives from courses listed above, a minimum of 4 hours of which must be taken in chemistry.

Business Concentration (38 hours):

Required Courses:

- 31 hours of the core curriculum

Business:

- BUS 201 - Principles of Accounting I 3 hours
- FIN 200 - Fundamentals of Finance 3 hours
- MGT 301 - Survey of Management 3 hours
- MKTG 301 - Introduction to Marketing 3 hours

Chemistry:

- CHEM 431 - Biochemistry I 3 hours
- CHEM 431L - Biochemistry Laboratory 1 hour
- CHEM 465 - Survey of Physical Chemistry 4 hours
- CHEM 465L - Survey of Physical Chemistry Laboratory 1 hour

Economics:

- ECON 200 - Principles of Macroeconomics 3 hours.
- ECON 201 - Principles of Microeconomics 3 hours.

Physics:

- PHYS 105 - General Physics I 3 hours
- PHYS 105L - General Physics I Laboratory 1 hour

- PHYS 106 - General Physics II 3 hours
- PHYS 106L - General Physics II Laboratory 1 hour

Electives:

- 3 hours of advanced elective courses in chemistry listed above

Note:

*Students majoring in Chemistry with a Business Concentration are expected to meet all course prerequisites in the College of Business, including "Junior Standing in Business" where necessary.

Preferred effective term: Fall 2008

GRADUATE APPROVALS

COURSE REACTIVATION

COLLEGE OF ARTS AND SCIENCES: Biology

BIO 580
BIO 620
Preferred effective term: Fall 2008

CORRECTIONS

The catalog copy for the Physics Major should read 62-63 semester hours, instead of 61-62. The correction is reflected in bold and italic font.

COLLEGE OF ARTS AND SCIENCES: Physics

Proposed Catalog Copy:

Physics Major *(62-63 credits)*
CIP Code: 400801 Major Code: _____

Core Curriculum (40 Credits)
Required Physics courses: 205—4 credits; 205L—1 credit; 206—4 credits; 206L—1 credit; 215—3 credits; 215L—1 credit; 216—3 credits; 216L—1 credit; 310—3 credits; 341—3 credits
Required Mathematics: 131—4 credits; 132—4 credits
Required Chemistry: 105—3 credits; 105L—1 credit; 106—3 credits; 106L—1 credit

Engineering Physics Concentration (22-23 semester credits)

The engineering physics concentration focuses on applying the principles of physics to develop new technologies and solve interdisciplinary engineering problems. Graduates may pursue an advanced degree in applied physics or engineering, or function as productive engineering professionals.

Required Courses: 40 hour core curriculum
Physics: 356—3 hrs; 475—2-3 credits
Mechanical Engineering Technology: 103—3 credits; 130—2 credits; 203—3 credits; 404—3 credits
Computer Science: 256—3 credits
Electives: 3 hours from approved courses
Preferred effective term: Fall 2008