



# *Academic Notes*

May 24, 2010

AN 2009-2010

## **ACADEMIC NOTES PUBLICATION SCHEDULE FOR SUMMER 2010**

Below is the circulation schedule for the electronic copy of *Academic Notes* through August 16, 2010. 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/academicaffairs/academic\\_notes.htm](http://www.indstate.edu/academicaffairs/academic_notes.htm)

During the summer months, *Academic Notes* is published every other week.

## **ACADEMIC NOTES PUBLICATION SCHEDULE FOR SUMMER 2010**

<u>Deadline for Items</u>	<u>Issue Date</u>
June 2	June 7
June 16	June 21
June 30	July 6
July 14	July 19
July 28	August 2
August 11	August 16

## **BOARD OF TRUSTEES APPROVALS**

The Board of Trustees approved at its meeting of May 7, 2010 the following items:

### **DEPARTMENT NAME CHANGE**

Pending approval of the Physician Assistant Program and Physical Therapy Program, which will be housed in the Athletic Training Department, a change in department name is suggested. The Athletic Training Department voted to change the name to better reflect the programs housed in the department to the Department of Applied Medicine and Rehabilitation.

*Preferred effective term: Fall 2010*

## **DEPARTMENT OF SOCIAL WORK MOVE TO A DIFFERENT COLLEGE**

The Department of Social Work requests that it be moved from the College of Arts and Sciences to the College of Nursing, Health, and Human Services.

This proposal was approved by The College of Arts and Sciences' Academic Affairs Committee on October 16, 2009, the college of Arts and Sciences' Administrative Affairs Committee on October 15, 2009, and the College of Arts and Sciences' Faculty Council on October 21, 2009.  
*Preferred effective date: July 1, 2010*

## **REORGANIZATION OF THE COLLEGE OF TECHNOLOGY**

The request for reorganization is the culmination of several months of discussions within the College of Technology. On November 6, 2009, at an all-faculty meeting during an all day retreat of the College of Technology (COT), after thorough discussion, a vote was taken to reorganize the COT into five departments comprising the areas of applied engineering and technology management, aviation, built environment, electronics and computer engineering technology, and human resource development and performance technologies (27-5-1). On February 3, 2010, the COT Faculty Council approved a ballot to be sent to all faculty for a ratification vote of the proposed new College organizational structure. On February 11, 2010, the Faculty Council met to tally the ballots and ratify a second approval by an overwhelming majority of over 2/3 of the eligible voting faculty (23-5-1.)

The five proposed departments will be structured as follows:

Applied Engineering and Technology Management (Abbreviation: AETM)

- Advanced Manufacturing Management BS
- Advanced Manufacturing Management minor
- Automotive Engineering Technology BS
- Automotive Engineering Technology minor
- Automotive Technology Management minor
- Career & Technical Education BS
- Career & Technical Education MS for Teacher Licensure
- Industrial Technology MS
- Mechanical Engineering Technology BS
- Packaging BS
- Packaging minor
- Technology and Engineering Education BS
- Technology Education MS
- Technology Management BS
- Technology Management Ph.D.

The course prefixes that will reside in this department are: AET, CTE, MET, MFG, PKG, TCED, and TMGT.

**Department of Aviation Technology (Abbreviation: AVT)**

- Aviation Management BS
- Professional Aviation Flight Technology BS
- Aviation Technology minor

The course prefix that resides in this department is AVT.

**Department of Built Environment (Abbreviation: BILT)**

- Construction Management BS
- Construction Management minor

Other programs will be added pending approval.

The course prefix that will reside in this department is CNST.

**Electronics and Computer Engineering Technology (Abbreviation: ECT)**

- Automation and Control Engineering Technology BS
- Computer-Aided Design and Drafting minor
- Computer Engineering Technology BS
- Computer Engineering Technology minor
- Electronics Technology BS
- Electronics Technology minor
- Electronics and Computer Technology MS

An additional program will be added pending approval.

The course prefix that will reside in this department is ECT.

**Human Resources Development and Performance Technologies (Abbreviation: HRDP)**

- Human Resource Development for Higher Education and Industry BS
- Human Resource Development for Higher Education and Industry minor
- Human Resource Development for Higher Education and Industry MS
- Certificate of Graduate Study in Human Resource Development

The course prefix that will reside in this department is HRD.

*Preferred effective term: Fall 2010*

**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.
- If you have questions, please contact Academic Affairs, extension 3662.

# CURRICULUM

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## UNDERGRADUATE PROPOSALS

### PROGRAM REVISIONS

#### COLLEGE OF NURSING, HEALTH, AND HUMAN SERVICES: Baccalaureate Nursing

**Nursing Major-Traditional track for students entering without R.N. or L.P.N. Licensure (128 credits)**

**CIP Code: 511601 Major Code: 9250**

## **Brief Summary:**

The Baccalaureate Nursing Program Traditional Track for students entering without RN or LPN licensure has been revised to integrate the new foundational studies program. The required nursing courses and cognates for the four year program of study have not changed. However, the total number of credit hours required to complete the degree have increased from 128 credit hours to 131-132 credit hours due to a change in fitting required support courses into foundational studies. Many of the nursing students in this track meet the foreign language/non-native language requirement by taking high school foreign language and therefore will only take 125-126 credits.

## **Student Learning:**

N/A

## **Proposed Catalog Copy:**

**Nursing Major-Traditional track for students entering without R.N. or L.P.N. Licensure (132 credits)**

**CIP Code: 511601 Major Code: \_\_\_\_\_**

Students who are admitted to the University with unconditional standing may begin the program of studies as pre-nursing majors (nursing non-designated or NND). They must successfully complete the required prerequisite nursing and support courses before applying for admission to the major at the sophomore level.

The admission, progression, retention, dismissal and graduation policies may be found at the nursing Web site, <http://www.indstate.edu/nursing/programs/bs/basic/bs.htm>

Required Prerequisite Nursing Courses (4 credits):

- NURS 104 - Introduction to Professional Nursing 2 credits
- NURS 106 - Mental Health Aspects of Nursing Practice 2 credits

Required Prerequisite Support Courses (25 credits):

- BIO 274 - Introductory Microbiology 2 credits
- BIO 274L - Introductory Microbiology Laboratory 1 credits
- COMM 101 - Introduction to Speech Communication 3 credits
- ENG 107 - Rhetoric and Writing 3 credits
- PSY 101 - General Psychology : Understanding Human Behavior 3 credits

Choose one pair of the following:

- ATTR 210 - Human Anatomy for Allied Health Professions 2 credits
- ATTR 210L - Human Anatomy for Allied Health Professions Laboratory 1 credits
- or
- BIO 231 - Human Anatomy 2 credits
- BIO 231L - Human Anatomy Laboratory 1 credits

Choose one pair of the following:

- PE 220 - Human Physiology for Allied Health Professions 2 credits

- PE 220L - Human Physiology for Allied Health Professions Laboratory 1 credits
- or
- BIO 241 - Human Physiology 2 credits
- BIO 241L - Human Physiology Laboratory 1 credits

Choose one pair of the following:

- CHEM 100 - Chemistry: Reactions and Reason 3 credits
- CHEM 100L - Chemistry: Reactions and Reason Laboratory 1 credits
- or

Higher level chemistry course and laboratory

Quantitative Literacy Requirement (3 credits)

Required Nursing Courses for the Major (58 credits):

- NURS 200 - Nursing Assessment of the Adult 3 credits
- NURS 204 - Fundamentals of Nursing Practice 5 credits
- NURS 224 - Nursing Care of Adults I 5 credits
- NURS 226 - Nursing in Mental Illness 3 credits
- NURS 228 - Clinical Pharmacology 3 credits
- NURS 318 - Nursing Care of Families in Stress and Crisis 3 credits
- NURS 322 - Research/Theoretical Basis for Nursing Practice 3 credits
- NURS 324 - Nursing Care of Adults II 5 credits
- NURS 328 - Nursing Care of the Child and Family 4 credits
- NURS 330 - Nursing Care of the Childbearing Family 4 credits
- NURS 424 - Nursing Care of Adults III 5 credits
- NURS 450 - Population-Focused Community Health Nursing 6 credits
- NURS 470 - Nursing Leadership 3 credits
- NURS 484 - Reflective Nursing Practice 3 credits
- NURS 486 - Professional Nursing Synthesis 3 credits

Note:

Progression in the nursing program is dependent upon meeting the nursing course prerequisites identified in the course descriptions Consultation with the academic advisor regarding the individual student's program of study is strongly recommended.

Required Support Courses for the Major (15 credits):

- BIO 412 - Pathophysiology 2-3 credits
- ENG 305 - Advanced Expository Writing 3 credits
- SOC 101 - Foundations of Social Life 3 credits

Choose one of the following:

- EPSY 302 - Introduction to Applied Psychological Statistics 3 credits
- HLTH 340 - Health Biostatistics 3 credits
- or any college level statistics course.

Choose one of the following:

- EPSY 221 - Developmental Psychology 3 credits
- PSY 266 - Developmental Psychology 3 credits

Note:

Additional credits in elective, basic studies, and liberal studies courses are needed to achieve the 131 credits minimum required for graduation.

*Preferred effective term: Fall 2010*

## **COLLEGE OF NURSING, HEALTH, AND HUMAN SERVICES: Baccalaureate Completion Nursing**

**Nursing Major - Baccalaureate Track for students entering with R.N. Licensure  
CIP Code: 511601 Major Code: 9321**

### **Brief Summary:**

The revisions integrating the Foundational Studies will not effect credit hours for students completing the RN to BS degree. It will remain at 124 credit hours to complete the Baccalaureate Degree. It does affect courses to be taken for foundational studies within the program.

### **Student Learning:**

N/A

### **Proposed Catalog Copy:**

**Nursing Major - Baccalaureate Track for students entering with R.N. Licensure  
CIP Code: 511601 Major Code: \_\_\_\_\_**

Students who are admitted to the University with unconditional standing and meet the admission criteria for this track may apply for admission to the nursing major at the junior level. The admission, progression, retention, dismissal and graduation policies may be found at the nursing Web site, <http://www.indstate.edu/nursing/programs/bs/rn-bs/rn-bs.htm>

Required Nursing Courses for the Major (29 credits):

- NURS 300 - Transition to Professional Nursing Practice 4 credits
- NURS 304 - Comprehensive Health Assessment for Nursing Practice 4 credits
- NURS 318 - Nursing Care of Families in Stress and Crisis 3 credits
- NURS 322 - Research/Theoretical Basis for Nursing Practice 3 credits
- NURS 450 - Population-Focused Community Health Nursing 6 credits
- NURS 470 - Nursing Leadership 3 credits
- NURS 484 - Reflective Nursing Practice 3 credits
- NURS 486 - Professional Nursing Synthesis 3 credits

Note:

Progression in the nursing program is dependent upon meeting the nursing course prerequisites identified in the course descriptions. Consultation with the academic advisor regarding the individual student's program of study is strongly recommended.

Required Support Courses for the Major (9 credits):

These courses may be taken at a community college or university or obtained through credit by examination.

- BIO 412 - Pathophysiology 2-3 credits
- ENG 305 - Advanced Expository Writing 3 credits

Choose one of the following:

- EPSY 302 - Introduction to Applied Psychological Statistics 3 credits
- HLTH 340 - Health Biostatistics 3 credits
- or

Any college level statistics course.

Note:

Per Dean's waiver, students in the RN to BS track will be waived their Basic Studies: English 107; Communication 101; Quantitative Literacy; Foreign Language; and Physical Education 101/101L. Information Technology Literacy requirement is met in NURS 300. The maximum amount of credits for the associate degree in nursing will be given. Additional credits in elective, basic studies and liberal studies courses are needed to achieve the 124 minimum credits required for graduation.

*Preferred effective term: Fall 2010*

### **COLLEGE OR NURSING, HEALTH, AND HUMAN SERVICES: Baccalaureate Completion Nursing**

**Nursing Major - Baccalaureate Track for students entering with L.P.N./L.V.N. Licensure (129 credits)**

**CIP Code: 511601 Major Code: 9322**

#### **Brief Summary:**

The revisions integrating the Foundational Studies increases credit hours from 129 to 135-136.

#### **Student Learning:**

The required IT requirement through NURS 108 or an equivalent computer literacy course will remain a requirement for this program. Student must be computer literate to be able to participate in this totally online nursing track.

#### **Proposed Catalog Copy:**

**Nursing Major - Baccalaureate Track for students entering with L.P.N./L.V.N. Licensure (136 credits)**

**CIP Code: 511601 Major Code: \_\_\_\_\_**

Students who are admitted to the University may apply for conditional admission to the nursing major at the sophomore level after successfully completing the required prerequisite support courses, and credit by examination for specified nursing courses.

The admission, progression, retention, dismissal and graduation policies may be found at the



nursing Web site, <http://www.indstate.edu/nursing/programs/bs/lpn-bs/lpn-bs.htm>

Required Prerequisite Nursing Courses (15 credits):

These courses must be successfully challenged before admission.

- NURS 106 - Mental Health Aspects of Nursing Practice 2 credits
- NURS 224 - Nursing Care of Adults I 5 credits
- NURS 328 - Nursing Care of the Child and Family 4 credits
- NURS 330 - Nursing Care of the Childbearing Family 4 credits

Required Prerequisite Support Courses (25 credits):

These courses may be taken in conventional community college or university setting or obtained through credit by examination.

- BIO 274 - Introductory Microbiology 2 credits
- BIO 274L - Introductory Microbiology Laboratory 1 credits
- COMM 101 - Introduction to Speech Communication 3 credits
- ENG 107 - Rhetoric and Writing 3 credits
- PSY 101 - General Psychology : Understanding Human Behavior 3 credits
- Quantitative Literacy Requirement: 3 credits

Choose a pair of the following:

- ATTR 210 - Human Anatomy for Allied Health Professions 2 credits
- ATTR 210L - Human Anatomy for Allied Health Professions Laboratory 1 credits
- or
- BIO 231 - Human Anatomy 2 credits
- BIO 231L - Human Anatomy Laboratory 1 credits

Choose a pair of the following:

- PE 220 - Human Physiology for Allied Health Professions 2 credits
- PE 220L - Human Physiology for Allied Health Professions Laboratory 1 credits
- or
- BIO 241 - Human Physiology 2 credits
- BIO 241L - Human Physiology Laboratory 1 credits

Choose one pair of the following:

- CHEM 100 - Chemistry: Reactions and Reason 3 credits
- CHEM 100L - Chemistry: Reactions and Reason Laboratory 1 credits
- or

Higher level chemistry course and laboratory.

Required Nursing Courses for the Major (41 credits):

- NURS 208 - Transition from L.P.N. to B.S.N. 3 credits
- NURS 226 - Nursing in Mental Illness 3 credits
- NURS 304 - Comprehensive Health Assessment for Nursing Practice 4 credits
- NURS 318 - Nursing Care of Families in Stress and Crisis 3 credits
- NURS 322 - Research/Theoretical Basis for Nursing Practice 3 credits
- NURS 324 - Nursing Care of Adults II 5 credits
- NURS 424 - Nursing Care of Adults III 5 credits
- NURS 450 - Population-Focused Community Health Nursing 6 credits

- NURS 470 - Nursing Leadership 3 credits
- NURS 484 - Reflective Nursing Practice 3 credits
- NURS 486 - Professional Nursing Synthesis 3 credits

Note:

Progression in the nursing program is dependent upon meeting the nursing course prerequisites identified in the course descriptions. Consultation with the academic advisor regarding the individual student's program of study is strongly recommended.

Required Support Courses for the Major (15 credits):

These courses may be taken at a community college or university or obtained through credit by exam:

- BIO 412 - Pathophysiology 2-3 credits
- ENG 305 - Advanced Expository Writing 3 credits
- SOC 100 - Foundations of Social Life 3 credits

Choose one of the following:

- EPSY 221 - Developmental Psychology 3 credits
- PSY 266 - Developmental Psychology 3 credits

Choose one of the following:

- EPSY 302 - Introduction to Applied Psychological Statistics 3 credits
- HLTH 340 - Health Biostatistics 3 credits
- Any college level statistics course.

Note:

Additional credits in elective, basic studies, and liberal studies courses are needed to achieve the 135 minimum credits required for graduation.

*Preferred effective term: Fall 2010*

## **UNDERGRADUATE APPROVALS**

### **NEW COURSES**

#### **COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science**

##### **CS 201 - Computer Science I**

3 credits

This course begins with a history of programming languages, then focuses on programming in a particular language. The following topics are covered in some detail: variables, expressions and operators, control structures, simple data types, arrays, classes and objects. Algorithm design and security issues are also discussed.

**Prerequisite:** CS 151.

A-F Grading

*Preferred effective term: Fall 2010*

##### **CS 202 - Computer Science II**

3 credits

This course is a continuation of CS 201. It involves a deeper study of programming languages, but emphasizes programming in a particular language. Topics include algorithm design and analysis, data structures, recursion, threads, network programming, graphics, security and ethics.

**Prerequisite:** CS 201.

A-F Grading

*Preferred effective term: Fall 2010*

### **CS 303 - Discrete Structures**

3 credits

This course is an introduction to discrete mathematics for computer science. The course covers the basic topics from set theory (including functions and relations), logic, number theory, counting, graph theory, and discrete probability. It involves a detailed study of proof techniques.

**Prerequisite:** CS 201.

A-F Grading

*Preferred effective term: Fall 2010*

## **SCOTT COLLEGE OF BUSINESS: Analytical**

### **OMA 475 – Enterprise Resource Planning Systems**

3 credits

This course introduces students to Enterprise Resource Planning systems using SAP software. Students learn how Enterprise Resource Planning systems can be used to manage and integrate all functional areas of a modern firm. Students gain extensive hands-on experience using SAP software. Students repeating the course also complete a semester research project on Enterprise Resource Planning systems.

**Prerequisite:** junior standing in business or consent of Department Chairperson.

**Repeatable:** up to six credits.

**Note:** Open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

*Preferred effective term: Fall 2010*

## **COLLEGE OF NURSING, HEALTH, AND HUMAN SERVICES: Health, Safety, and Environmental Health Sciences**

### **HLTH 409 – Health Screening**

2 credits

The course provides students with the most common health screening and health counseling skills. Students are taught the most current screening and health counseling techniques and complete Certified Peer Education and HIV counseling training modules.

**Prerequisite:** HLTH 392.

**Co-requisite:** HLTH 409L.

A-F Grading

*Preferred effective term: Spring 2011*

### **HLTH 409L – Health Screening Laboratory**

1 credit

The course is the laboratory to accompany HLTH 409, which provides students with the most common health screening and health counseling skills. Students will be taught the most current screening and health counseling techniques and will complete Certified Peer Education and HIV counseling training modules.

**Prerequisite:** HLTH 392.

**Co-requisite:** HLTH 409.

A-F Grading

*Preferred effective term: Spring 2011*

## **COURSE REVISIONS**

### **MATH 388 - The Teaching of Middle School Mathematics**

2 credits

The materials, devices, and methods of teaching mathematics in middle schools. This course is usually taken concurrently with CIMT 301 and 302 or 410M.

**Prerequisites:** junior status as a mathematics education or an elementary education major.

*Change credits to:*

### **MATH 388 - The Teaching of Middle School Mathematics**

3 credits

The materials, devices, and methods of teaching mathematics in middle schools. This course is usually taken concurrently with CIMT 301 and 302 or 410M.

**Prerequisites:** junior status as a mathematics education or an elementary education major.

A-F Grading

*Preferred effective term: Spring 2011*

### **MATH 391 - Teaching of High School Mathematics**

2 credits

The materials, devices, and methods of teaching mathematics in high schools. This course is taken concurrently with Curriculum, Instruction, and Media Technology 400 and 400L.

**Prerequisites:** 18 credits on the Mathematics teaching major or minor.

*Change credits and prerequisites to:*

### **MATH 391 - Teaching of High School Mathematics**

3 credits

The materials, devices, and methods of teaching mathematics in high schools. This course is taken concurrently with Curriculum, Instruction, and Media Technology 400 and 400L.

**Prerequisites:** MATH 388.

A-F Grading

*Preferred effective term: Spring 2011*

## **SCOTT COLLEGE OF BUSINESS: Analytical**

### **OMA 490 - Supply Chain Management**

3 credits

This course is designed to build a basic understanding of the processes involved in managing and integrating the supply chain by using both qualitative and quantitative skills. Focus is on the management of the entire organization, with emphasis placed on managing the flow of

information, materials, people, and services from raw materials through production (or service delivery) to the final customer.

**Prerequisites:** OMA 445 with a minimum grade of C, or consent of Department Chairperson.

**Note:** Open to graduate students. Graduate students are required to do additional work of a research nature.

*Change prerequisites to:*

**OMA 490 - Supply Chain Management**

3 credits

This course is designed to build a basic understanding of the processes involved in managing and integrating the supply chain by using both qualitative and quantitative skills. Focus is on the management of the entire organization, with emphasis placed on managing the flow of information, materials, people, and services from raw materials through production (or service delivery) to the final customer.

**Prerequisites:** BUS 351 or equivalent with a minimum grade of C, or consent of Department Chairperson.

**Note:** Open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

*Preferred effective term: Spring 2011*

**COURSE REVISIONS**  
**FOUNDATIONAL STUDIES CREDIT**

**COLLEGE OF ARTS AND SCIENCES: African and African American Studies**

**AFRI 312 - Socio-Political Development and Change in the African and African American World**

3 credits

The study and analysis of socio-cultural and political forces underlying Black socio-cultural, politico-economical, and religious development during the twentieth century. Topics include: Black Civil Rights organizations, Black socio-economic classes, Black education, Black mores, Black labor, Black capitalism, Black national and international leadership, and Pan-Africanism.

**General Education Credit:** [GE2000: Multicultural Studies-U.S. Diversity]

*Change title, description, and General Education Credit to Foundational Studies Credit:*

**AFRI 312 – The African Diaspora**

3 credits

This course traces the spread of African culture and ideas through the African Diaspora as a result of slavery and colonialism, and the ways that African traditions were reinterpreted and combined with European culture. Topics include: ideas of the Diaspora, religious beliefs, food traditions, music, and kinship traditions in the United States, Caribbean, and South America.

**Foundational Studies Credit:** [FS 2010: Integrative Upper-Division Electives]

*Preferred effective term: Fall 2010*

**COLLEGE OF ARTS AND SCIENCES: Environmental and Earth Systems**

**ENVI 423 - Geography of the Middle East**

3 credits

Physical and cultural environment of the Middle East, with emphasis on its strategic location, significance in world history and culture, energy resources, and evolving geopolitics.

**General Education Credit:** [GE2000: Multicultural Studies-International Cultures]

*Change description and General Education Credit to Foundational Studies Credit:*

**ENVI 423 - Geography of the Middle East**

3 credits

Environmental and cultural patterns of the Middle East, with emphasis on strategic location, significance in world history, Islamic culture, water and energy resources, and evolving geopolitics and conflicts.

**Foundational Studies Credit:** [FS 2010: Integrative Upper-Division Electives]

*Preferred effective term: Fall 2010*

**COLLEGE OF ARTS AND SCIENCES: History**

**HIST 320 - Comparative Slavery**

3 credits

An institution that existed in much of the world until very recently, slavery has had a profound impact on the transfer of ideas and culture around the world. By examining the history of slavery in Europe, Asia, America, and Africa, this course will help students understand the remarkable diversity of the world's culture and how cultural ideas are transferred and transformed through such events as slavery.

**General Education Credit:**[GE2000: Multicultural Studies- International Cultures]

*Change title, description, and General Education Credit to Foundational Studies Credit:*

**HIST 320 – The African Diaspora**

3 credits

An institution that existed in much of the world until very recently, slavery has had a profound impact on the transfer of ideas and culture around the world. By examining the history of slavery in Europe, Asia, America, and Africa, this course helps students understand the remarkable diversity of the world's culture and how cultural ideas are transferred and transformed through such events as slavery.

**Foundational Studies Credit:** [FS 2010: Integrative Upper-Division Electives]

*Preferred effective term: Fall 2010*

**HIST 336 - The 1960s: Counterculture and Protest**

3 credits

Investigation of the counterculture and social and political protest movements in the United States from 1955-1975.

**General Education Credit:** [GE2000: Historical Studies]

*Change General Education Credit to Foundational Studies Credit:*

**HIST 336 - The 1960s: Counterculture and Protest**

3 credits

Investigation of the counterculture and social and political protest movements in the United States from 1955-1975.

**Foundational Studies Credit:** [FS 2010: Integrative Upper-Division Electives]

*Preferred effective term: Fall 2010*

## **COLLEGE OF TECHNOLOGY: Technology Management**

### **PKG 381 - Environmental Issues of Packaging**

3 credits

A study of the impact of packaging and packaging materials on the environment from the manufacturing process through their life cycle, and ways to reduce, reuse, and recycle packaging solid waste. Students learn how countries around the world are addressing these issues. The course investigates the impact of political climates, cultural norms, and other situations on the way environmental issues are viewed around the world. Emphasis is placed on personal responsibility and the sociological impacts of choices made.

*Change title, description, prerequisites, and add Foundational Studies Credit to:*

### **PKG 381 - Environmental Issues of Packaging: Foundational Studies in Ethics and Social Responsibility**

3 credits

The course investigates the impact of political climates, cultural norms, and other situations on the way environmental issues are viewed around the world. Emphasis is placed on ethical decision-making, personal responsibility, and the sociological impacts of choices made.

**Prerequisites:** Junior standing or consent of instructor.

**Foundational Studies Credit:** [FS 2010: Ethics and Social Responsibility]

A-F Grading

*Preferred effective term: Fall 2010*

## **PROGRAM REVISIONS**

### **COLLEGE OF ARTS AND SCIENCES: Biology**

#### **Clinical Laboratory Science Major (3-plus-1 Program) (64 credits) including extra-departmental requirements**

**CIP Code: 511005 Major Code: 2636**

#### **Brief Summary:**

The BS degree program in Biology with Specialization in Clinical Laboratory Science is termed a “3 plus 1” program because the student is in residence at ISU for the first three years and, if accepted into the 4<sup>th</sup> year internship, they spend the fourth year in a 12 month hospital training program. ISU is affiliated with five accredited hospital training programs in Indiana.

Changes to the Clinical Laboratory Science specialization are necessary for several reasons. First, changes in the Department of Biology have made it necessary to delete several courses because faculty that taught these specialty courses are no longer at ISU. The courses are not required to apply to the 4<sup>th</sup> year hospital program and so can be eliminated. Second: the name change is necessary because the field of Clinical Laboratory Science has officially changed its name to Medical Laboratory Science (effective Oct 23, 2009) and the students will ultimately be registered through the American Society of Clinical Pathologists as Medical Laboratory Scientists. Third: an immunology course has been added to the required courses by the hospital programs and therefore needs to be added to the courses required by our program.

#### **Student Learning:**

Student outcomes for the Clinical Laboratory Science program have not been assessed recently. However, unofficially, the Department of Biology has had 1-2 students enter the 4<sup>th</sup> year hospital training program for the past 5 years. The rate of completion of the program is 100% and the employment of these graduates is 100% in their field. In fact, most of these students have been offered jobs and have accepted positions before they graduate. Efforts are underway to increase enrollment in the program and 12 are enrolled currently.

### **Proposed Catalog Copy:**

#### **Biology with Specialization in Medical Laboratory Science Major ((3-plus-1 Program)**

(46-47 credits plus 32-34 credits from hospital internship)

**CIP Code: 511005 Major Code: \_\_\_\_\_**

Required Biology Courses (23 credits):

- BIO 101 - Principles of Biology I 3 credits
- BIO 101L - Principles of Biology I Laboratory 1 credits
- BIO 102 - Principles of Biology II 3 credits
- BIO 102L - Principles of Biology II Laboratory 1 credits
- BIO 241 - Human Physiology 2 credits
- BIO 241L - Human Physiology Laboratory 1 credits
- BIO 374 - Cellular and Microbial Biology 3 credits
- BIO 374L - Clinical Microbiology Laboratory 1 credits
- BIO 380 - Genetics 3 credits
- BIO 380L - Genetics Laboratory 1 credits
- BIO 408 – Immunology 3 credits
- BIO 408L – Immunology Laboratory 1 credits

Prerequisites Include the Following (20 credits):

- CHEM 105 - General Chemistry I 3 credits
- CHEM 105L - General Chemistry I Laboratory 1 credits
- CHEM 106 - General Chemistry II 3 credits
- CHEM 106L - General Chemistry II Laboratory 1 credits
- CHEM 351 - Organic Chemistry I 3 credits
- CHEM 351L - Organic Chemistry Laboratory I 1 credits
- CHEM 352 - Organic Chemistry II 3 credits
- CHEM 352L - Organic Chemistry Laboratory II 1 credits
- PHYS 105 - General Physics I 3 credits
- PHYS 105L - General Physics I Laboratory 1 credits

Select one from the following (3-4 credits):

- MATH 131 – Calculus I 4 credits
- MATH 241 - Principles of Statistics 3 credits
- BIO 485 - Introduction to Biometry 3 credits



Fourth-year students accepted to the clinical courses register as full-time ISU students and, upon successful completion of the 12-month program, receive the 32-34 credit hours for that are required for completion of the bachelor of science degree.

Required Fourth Year Clinical Biology Courses (32-34 credits):

- BIO 470C - Special Topics in Clinical Laboratory Science 1-10 credits
- BIO 471C - Clinical Microbiology 1-10 credits
- BIO 472C - Clinical Immunology/Serology 1-10 credits
- BIO 473C - Clinical Microscopy 1-10 credits
- BIO 474C - Clinical Hematology 1-10 credits
- BIO 475C - Clinical Immunohematology 1-10 credits
- BIO 476C - Clinical Chemistry 1-10 credits

**Note:** Completion of required courses does not guarantee admission to the fourth year clinical courses. To be eligible for enrollment in these courses, a student must:

1. Have a minimum grade point average of 2.5 on a 4.0 scale when applying for the clinical year.
2. Gain acceptance into an affiliate hospital program. In general, acceptance is based on academic performance, letters of recommendation, and a personal interview. Each clinical program has an admissions committee that is responsible for decisions regarding acceptance to the program.

*Preferred effective term: Fall 2010*

## **COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science**

### **Computer Science Major (76 credits minimum)**

**CIP 110101 Major Code: 3023**

#### **Brief Summary:**

The main changes to the program are the removal of the science requirement and the introduction of two concentrations in the major – Computing Science and Information Science, giving students more choice in topics of concentration. The changes also result in a reduction in the number of credit hours needed for the major from 76 hours to 53 hours for Computing Science and 51 hours for Information Science.

#### **Student Learning:**

In Spring 2009, all of the programs in the Department of Mathematics and Computer Science underwent an external program review. The program review recommended the adoption of the Python or Java programming languages in place of C++, emphasizing object orientation early in the curriculum and giving students more choice in selecting courses. The proposed changes incorporate all of these recommendations.

The two concentrations will improve student learning, allowing students to explore in greater depth the theoretical foundations and practical aspects of computer science. The program thus

becomes more effective in preparing students for their areas of interest and future endeavors.

**Proposed Catalog Copy:**

**Computer Science Major (51-53 credits)**

**CIP 110101 Major Code: \_\_\_\_\_**

**Required Computer Science Courses (27 credits):**

CS 151 Introduction to Computer Science 3 credits

CS 201 Computer Science I 3 credits

CS 202 Computer Science II 3 credits

CS 303 Discrete Structures 3 credits

CS 451 Computer Architecture 3 credits

CS 452 Software Engineering 3 credits

CS 456 Systems Programming 3 credits

CS 470 Programming Languages 3 credits

CS 471 Operating Systems 3 credits

**Elective Computer Science Courses (9 credits):**

9 credits of computer science courses approved by the student's advisor.

*All students must choose one of the following concentrations along with the courses above:*

**Computing Science Concentration (17 credits):**

Required Computer Science Courses:

CS 420 Theory of Computation 3 credits

CS 421 Formal Methods 3 credits

CS 458 Algorithms 3 credits

Required Mathematics Courses:

MATH 131 Calculus I 4 credits

MATH 132 Calculus II 4 credits

**OR**

**Information Science Concentration (15 credits) :**

CS 170 Web Programming 3 credits

CS 457 Data Base Programming 3 credits

CS 469 Unix/Linux Administration and Networking 3 credits

CS 473 Computer Networks 3 credits

CS 479 Web Programming II 3 credits

*Preferred effective term: Fall 2010*

## **COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science**

### **Mathematics Major (40 credits)**

**CIP Code: 270101 Major Code: 3021**

#### **Brief Summary:**

The changes to the mathematics major include changes to the required core of mathematics courses. All mathematics majors will take MATH 122, 131, 132, 231, 380, 412, and 413. This core of courses is also required of all mathematics education majors. Additionally, Mathematics majors are required to take MATH 410. Students will then select 12 credit hours of electives from MATH 320, 323, 333, 341, 411, 430, 431, 441, 442 and 490. These changes reduce the number of required hours and increase the number of elective hours, thereby providing greater flexibility to students who may want to focus on a particular area in mathematics. These changes also increase the number of courses common to both mathematics and mathematics education majors. In fact, with appropriate selection of mathematics electives, a mathematics education major can complete the requirements for a mathematics major.

#### **Student Learning:**

In Spring 2009, all of the programs in the Department of Mathematics and Computer Science underwent an external program review. One of the recommendations was to align the Mathematics and Mathematics Education Majors as closely as is practicable. The proposed changes address this concern. The Department has long discussed the possibility of creating concentrations in the Mathematics major. The proposed changes which include a reduced number of required courses will make it easier to create concentrations in the Mathematics major at such time as we have more students completing the major. However, the current changes allow students the flexibility to create unofficial concentrations based on their career goals and interests.

#### **Proposed Catalog Copy:**

##### **Mathematics Major (39 credits)\***

**CIP Code: 270101 Major Code: \_\_\_\_\_**

#### **Required Mathematics:**

MATH 122 – Analytic Geometry 3 credits

MATH 131 - Calculus I 4 credits

MATH 132 - Calculus II 4 credits

MATH 231 - Calculus III 4 credits

MATH 380 - Introduction to Abstract Mathematics 3 credits

MATH 410 - Introduction to Analysis 3 credits

MATH 412 - Abstract Algebra I 3 credits

MATH 413 - Linear Algebra I 3 credits

#### **Elective Mathematics:**

12 credit hours of directed electives from upper-division mathematics courses, selected from 320, 323, 333, 341, 411, 430, 431, 441, 442, 490. At least 6 hours must be from 400-level courses.

**Note:** \*For the mathematics major at least 18 credit hours of the 39 credit hours of mathematics courses must be taken at Indiana State University. Only in the most exceptional cases will partial exemptions from this requirement be granted.

*Preferred effective term: Fall 2010*

## **COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science**

### **Mathematics Teaching Major (40-43 credits minimum)**

**CIP Code : 270101 Major Code: 3022**

#### **Brief Summary:**

The changes to the program are:

1. A reduction in the number of credit hours in MATH 122 (reduced from 4 to 3)
2. A title, description, and pre-requisite change to MATH 412 made in conjunction with changes to the Mathematics Major.
3. An increase of one credit hour each to MATH 388 and MATH 391, the middle school and high school mathematics methods courses. These changes will increase the number of hours in the major by 1.
4. With the changes in the General Education Program, the required general education capstone course of MATH 492 has been moved to the Required Mathematics section.
5. The choices for the 6 hours of elective mathematics have been defined
6. The option of selecting upper division courses in computer science has been removed.
7. We have added selected upper division courses in physics or chemistry as a way to meet this requirement for those students seeking licensure in chemistry or physics.

## **Student Learning:**

In Spring 2009, all of the programs in the Department of Mathematics and Computer Science underwent an external program review. The reviewers made two recommendations that pertain to the Mathematics Education Major: that we should align the Mathematics Education and Mathematics Majors as closely as is practicable and that the number of credits required in the Mathematics Methods Courses (MATH 388 and MATH 391) be increased from 2 to at least 3. The proposed changes address both of these concerns. The increase in credit hours for the two methods courses will allow students to receive additional instruction in mathematics methods. Students reported to program reviewers that they considered those courses among the most valuable they had taken in their major and wished that they had more hours. The addition of one hour to each of these two courses will put us more in line with other similar institutions and will result in a net increase of only one hour in the mathematics education major after the changes in MATH 122.

## **Proposed Catalog Copy:**

**Mathematics Teaching Major (49 credits minimum)**

**CIP Code : 270101 Major Code: \_\_\_\_\_**

### **Required Mathematics (36 credits):**

MATH 122 - Analytic Geometry 3 credits  
MATH 131 - Calculus I 4 credits  
MATH 132 - Calculus II 4 credits  
MATH 231 - Calculus III 4 credits  
MATH 323 - College Geometry 3 credits  
MATH 341 - Probability and Statistics 3 credits  
MATH 380 - Introduction to Abstract Mathematics 3 credits  
MATH 411 - Theory of Numbers 3 credits  
MATH 412 - Abstract Algebra 3 credits  
MATH 413 - Linear Algebra I 3 credits  
MATH 492 - History of Mathematics 3 credits

### **Elective Mathematics (6 credits):**

#### **6 credits selected from:**

MATH 320 Discrete Mathematics 3 credits  
MATH 333 Differential Equations 3 credits  
MATH 410 Introduction to Analysis 3 credits  
MATH 430 Real Variables I 3 credits (prerequisite of MATH 410 or consent)  
MATH 431 Complex Variables I 3 credits (prerequisite of MATH 410 or consent)  
MATH 441 Theory of Probability 4 credits  
MATH 442 Mathematical Statistics 4 credits (prerequisite of Math 441)  
MATH 490 Topics in Mathematics 2-6 credits  
CHEM 321 Analytical Chemistry 4 credits (prerequisite of CHEM 106/106L)  
CHEM 461 Physical Chemistry I 4 credits (prerequisite of CHEM 106/106L)  
PHYS 215 Modern Physics I 3 credits (prerequisite of PHYS 206)

PHYS 216 Modern Physics II 3 credits (prerequisite of PHYS 215)  
PHYS 310 Analytical Mechanics 3 credits (prerequisite of PHYS 206)  
PHYS 341 Electricity and Magnetism 3 credits (prerequisite of PHYS 206)

**Required Professional Education (7 credits):**

MATH 388 - The Teaching of Middle School Mathematics 3 credits  
MATH 391 - Teaching of High School Mathematics 3 credits  
MATH 402 - Teaching an Integrated Unit 1 credit

**Required Professional Education taught in the College of Education:**

The following are required in the Senior High-Junior High/Middle School Professional Education sequence also described in the Department of Curriculum Instruction and Media Technology.

CIMT 301 - Teaching I 3 credits  
CIMT 302 - Teaching II 3 credits  
CIMT 400 - Teaching III 3 credits  
CIMT 400L - Teaching III Practicum 1 credits  
CIMT 401 - Student Teaching 11 credits  
EPSY 202 - Psychology of Childhood and Adolescence 3 credits  
EPSY 341 - Education in a Multicultural Society 3 credits  
SPED 226 - The Exceptional Learner in the Regular Classroom 3 credits

*Preferred effective term: Spring 2011*

**COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science**

**Mathematics Minor (24 credits)**

**CIP Code: 270101**

**Brief Summary:**

The changes in the Mathematics Minor reflect changes made in the Mathematics Major. The Minor will require MATH 122 instead of MATH 380. The number of hours remains the same.

**Student Learning:**

These changes are a result of changes to the Mathematics Major prompted by a recent program review.

**Proposed Catalog Copy:**

**Mathematics Minor (24 credits)\***

**CIP Code: 270101**

**Required Mathematics:**

MATH 122 Analytic Geometry 3 credits

MATH 131 - Calculus I 4 credits  
MATH 132 - Calculus II 4 credits  
MATH 231 - Calculus III 4 credits

**Elective Mathematics:**

9 credits of directed electives from upper-division mathematics courses, except those not open to liberal arts majors. At least 6 credits must be from 400-level courses.

**Note:** \*For the mathematics minor at least 12 of the 24 of the mathematics course credits must be taken at Indiana State University. Only in the most exceptional cases will partial exemptions from this requirement be granted.

*Preferred effective term: Fall 2010*

**SCOTT COLLEGE OF BUSINESS**

**Motorsports Management Minor (21 credits)**

**Brief Summary:**

This proposal changes the requirements for the motorsports management minor.

**Student Learning:**

After discussions with our Motorsports Industry Advisory Board, as well as our recent motorsports management graduates we determined that we need to make this adjustment to our current offering to better position our students for the typical entry level positions in the industry.

**Proposed Catalog Copy:**

**Motorsports Management Minor (21 credits)**

The motorsports management minor is open to all majors. It is structured to minimize prerequisites and maximize flexibility, while giving a foundation of core skills useful in the motorsports industry. The motorsports industry includes designing, building, maintaining, managing, and promoting motorized vehicles intended for competition. It also includes the creation, financing, managing, and promoting of facilities, products, and services designed to support competition for motorized vehicles.

**Required:**

- AET 132 - Theory of I.C. Engines 3 credits
- COMM 470 – Public Relations Campaign Planning 3 credits
- INS 340 – Introduction to Risk and Insurance 3 credits
- MKTG 312 – Motorsports Marketing 3 credits
- RCSM 450 – Venue and Event Design and Management 3 credits

Choose one from the following:

- AET 330 - Survey of Motorsports 3 credits
- RCSM 330 – Survey of Motorsports 3 credits

**Electives:**

Choose 3 credits from the following:

- AET 432 – Parts Distribution and Marketing 3 credits
- AET 461 – The Automotive Industry: The First 100 Years 3 credits
- RCSM 355 – Communications and Media Relations in Sport 3 credits
- 3 hours of internship or practicum credit within a student’s major or minor related to the motorsports industry.

*Preferred effective term: Fall 2010*

**COLLEGE OF NURSING, HEALTH, AND HUMAN SERVICES: Health, Safety, and Environmental Health Sciences**

**Health Sciences Major (65-73 credits)**  
**CIP Code: 511504 Major Code: A232**

**Brief Summary:**

We would like to include HLTH 409 Health Screening and HLTH 409 L Health Screening Lab to the Health Sciences Public Health and Health Administration concentrations. We would also like to eliminate PE 180 and the option of PSY 362 or PSY 368 from the Public Health concentrations.

The Public Health concentration total hours would be decreased by one and the Health Administration total hours would be increased by three. The total hours required for both concentrations will be 63 - 65.

The course addresses the main screening activities Health Sciences students will expected to perform when employed. The course addresses the theories and training associated with patient health education and interpretation of results. Several of our students have been hired by organizations that provide screenings (WebMD, Principal, Minority Health Coalition, Health Department) at various events. These students were at a disadvantage and were forced to receive on the job training because they lacked these skills. Providing our students with these skills will make them more marketable and enhance their opportunities to secure employment.

**Student Learning:**

Currently, much of the training students receive in this area is random. In other words, there is no one course that covers all the topics and the learning becomes hit and miss at times. By including a course which covers all the topics and skills, we ensure that all our students are well prepared for employment. One of our student outcome is for students to be able to assess the health of the individuals and communities. This course will address this particular outcome.



## **Proposed Catalog Copy:**

### **Health Sciences Major (63-73 credits)**

**CIP Code: 511504 Major Code: \_\_\_\_\_**

The objectives of this degree program are to prepare health professionals to help maintain and improve the health, well-being, and quality of life of people; to prepare students to become health teachers; and to prepare students to pursue graduate education in a variety of related fields.

Students completing the health sciences major must earn a minimum of a “C” grade in all required major courses (core, content, culminating experience, professional and foundation courses).

Students completing the school health concentration must be thoroughly familiar with the requirements for admission to the Teacher Education Program and the teaching curriculum. Refer to the College of Education and the Department of Curriculum, Instruction, and Media Technology in this catalog.

All students must maintain a 2.5 grade point average in both the major courses and in their overall grade point average to graduate.

### **Health Sciences Core Courses (15 credits):**

- HLTH 111 - Personal Health Science and Wellness 3 credits
- HLTH 221 - Community Health Concepts 3 credits
- HLTH 340 - Health Biostatistics 3 credits
- HLTH 392 - Educational Methods for Health and Safety 3 credits
- HLTH 480 - Senior Seminar 3 credits

### **Public Health Concentration (48 – 50 credits):**

#### **Health, Safety, and Environmental Health Sciences Courses:**

- HLTH 210 - Principles of Environmental Health 3 credits
- HLTH 341 - Community Health Research Methods 3 credits
- HLTH 360 - Epidemiology 3 credits
- HLTH 393 - Cooperative Practice 2 credits
- HLTH 401 - Substance Abuse Education 3 credits
- HLTH 402 - Mental Health and Stress Education 3 credits
- HLTH 403 - Communicable and Chronic Diseases, and AIDS 3 credits
- HLTH 406 - Human Sexuality Education 3 credits
- HLTH 409 - Health Screening 2 credits
- HLTH 409L - Health Screening Lab 1 credit
- HLTH 424 - Health Promotion Planning 3 credits
- HLTH 428 - Health Program Evaluation 3 credits
- HLTH 446 - Individual, Community and General Safety Education 3 credits
- HLTH 491 - Community Health Internship 3 credits
- FCS 201 - Nutrition 3 credits

### **Other Required Courses:**

PSY 101 - General Psychology : Understanding Human Behavior 3 credits

Choose one of the following groups:

ATTR 210 - Human Anatomy for Allied Health Professions 2 credits

PE 220 - Human Physiology for Allied Health Professions 2 credits

or

BIO 231 - Human Anatomy 2 credits

BIO 231L - Human Anatomy Laboratory 1 credit

BIO 241 - Human Physiology 2 credits

BIO 241L - Human Physiology Laboratory 1 credit

**School Health Education Concentration (56 - 58 credits):**

**Health, Safety, and Environmental Health Sciences Courses:**

HLTH 211 - Emergency Medical Care and Advanced First Aid 2 credits

HLTH 211L - Advanced Emergency Medical Skill Proficiency Laboratory 1 credit

HLTH 401 - Substance Abuse Education 3 credits

HLTH 402 - Mental Health and Stress Education 3 credits

HLTH 403 - Communicable and Chronic Diseases, and AIDS 3 credits

HLTH 406 - Human Sexuality Education 3 credits

HLTH 313 - Comprehensive School Health Education 3 credits

FCS 201 - Nutrition 3 credits

**Other Required Courses:**

CIMT 301 - Teaching I 3 credits

CIMT 302 - Teaching II 3 credits

CIMT 400 - Teaching III 3 credits

CIMT 400L - Teaching III Practicum 1 credit

CIMT 401 - Student Teaching 11 credits

CIMT 402 - Teaching an Integrated Unit 1 credit

EPSY 202 - Psychology of Childhood and Adolescence 3 credits

EPSY 341 - Education in a Multicultural Society 3 credits

SPED 226 - The Exceptional Learner in the Regular Classroom 3 credits

**Choose one of the following groups:**

ATTR 210 - Human Anatomy for Allied Health Professions 2 credits

PE 220 - Human Physiology for Allied Health Professions 2 credits

or:

BIO 231 - Human Anatomy 2 credits

BIO 231L - Human Anatomy Laboratory 1 credit

BIO 241 - Human Physiology 2 credits

BIO 241L - Human Physiology Laboratory 1 credit

**Environmental Health Concentration (50 credits)**

**Health, Safety, and Environmental Health Sciences Courses:**

HLTH 210 - Principles of Environmental Health 3 credits

HLTH 341 - Community Health Research Methods 3 credits

HLTH 360 - Epidemiology 3 credits  
HLTH 377 - Environmental Field Sampling & Analysis 3 credits  
HLTH 377L- Environmental Field Sampling & Analysis and Lab 1 credit  
HLTH 425 - Toxicology 3 credits  
HLTH 429 - Hazardous Substances Waste Materials 3 credits  
HLTH 437 - Pollution Prevention and Control Technology 3 credits  
HLTH 457 - Food Protection 3 credits  
HLTH 491- Community Health Internship 3 credits

**Other Required Courses:**

BIO 112 -Human Aspects of Biology 3 credits  
BIO 112L- Exploration of Biological Phenomena 1 credit  
BIO 274 - Introduction to Microbiology 2 credit  
BIO 274L- Introduction to Microbiology Lab 1 credit  
CHEM 103- Elementary Chemistry 3 credits  
CHEM 103L- Elementary Chemistry Lab 1 credit  
CHEM 104-Elementary Organic and Biochemistry 3 credits  
CHEM 104L- Elementary Organic and Biochemistry Lab 1 credit  
MATH 115- College Algebra and Trigonometry 3 credits  
PHYS 105 - General Physics 1 3 credits  
PHYS 105L - General Physics 1 lab 1 credit

**Health Administration Concentration (48 - 50 credits)**

**Health, Safety, and Environmental Health Sciences Courses:**

HLTH 341 - Community Health Research Methods 3 credits  
HLTH 360 - Epidemiology 3 credits  
HLTH 393 - Cooperative Practice 2 credits  
HLTH 409 - Health Screening 2 credits  
HLTH 409L - Health Screening Lab 1 credit  
HLTH 424 - Health Promotion Planning 3 credits  
HLTH 428 - Health Program Evaluation 3 credits  
HLTH 491 - Community Health Internship 3 credits

**Select one of the following courses:**

HLTH 401 - Substance Abuse Education 3 credits  
HLTH 402 -Mental Health and Stress Education 3 credits  
HLTH 403 - Communicable and Chronic Diseases, and AIDS 3 credits

**Other Required Courses:**

ACCT 200 - Survey of Accounting 3 credits  
FIN 200 - Fundamentals of Finance 3 credits  
MGT 301 - Survey of Management 3 credits  
MKTG301 - Introduction to Marketing 3 credits  
HRD 420 - Career Development and Employee Appraisals 3 credits  
HRD 425 - Organizational Development 3 credits  
PSY 101 - General Psychology 3 credits

**Choose one of the following groups:**

- ATTR 210 - Human Anatomy for Allied Health Professions 2 credits
- PE 220 - Human Physiology for Allied Health Professions 2 credits
- or:
- BIO 231 - Human Anatomy 2 credits
- BIO 231L - Human Anatomy Laboratory 1 credit
- BIO 241 - Human Physiology 2 credits
- BIO 241L - Human Physiology Laboratory 1 credit

*Preferred effective term: Fall 2010*

## **PROGRAM ELIMINATIONS**

### **COLLEGE OF ARTS AND SCIENCES: English**

**English Teaching Minor (18 credits)**

**CIP Code: 230101 Major Code: 1022**

*Preferred effective term: Fall 2010*

### **COLLEGE OF TECHNOLOGY: Electronics, Computer, and Mechanical Engineering Technology**

**A.S. Electronics and Computer Technology**

**CIP Code: 150303 Major Code: D712**

**Brief Summary:**

The Electronics, Computer, and Mechanical Engineering Technology department wishes to eliminate the 2-year A.S. degree in Electronics and Computer Technology. This degree program no longer fits into the University's long term plan for degree offerings, and current and expected enrollments do not indicate the need to continue this program.

*Preferred effective term: Fall 2010*

## **CORRECTION**

**The courses MUS 278 and 478 were changed to MUS 282 and 482 respectively, as the number 278 and 478 had already been used. The change in the program is reflected in bold and italics.**

### **COLLEGE OF ARTS AND SCIENCES: Music**

**Music Major with Concentration in Composition (66 credits)**

**CIP Code: 500901 Major Code: 3332**

**Brief Summary:**

In most schools with a composition major, the program is housed under the professional bachelor

of music degree, not the general liberal arts BA/BS nomenclature. This change will bring ISU's curriculum in line with that practice, and enable the Music Department to offer a true BS/BA in Music. In addition, some courses will be deleted from the former major because they are not necessary for an undergraduate degree in composition.

### **Student Learning:**

The current bachelor of science in Composition does not meet the National Association of Schools of Music standards for a liberal arts degree because of the large number of music hours in the program. However, it is compatible with guidelines for the bachelor of music, a professional degree and will have the proper number of hours of composition in order to be accredited.

### **Proposed Catalog Copy:**

#### **Music Composition Major - Bachelor of Music (84 credits)**

**CIP Code: 500901 Major Code: \_\_\_\_\_**

#### **Theory (16 credits):**

- MUS 111---Music Theory I 2 credits
- MUS 112-- Music Theory II 2 credits
- MUS 113---Music Theory III 2 credits
- MUS 114---Music Theory IV 2 credits
- MUS 211---Music Skills I 2 credits
- MUS 212---Music Skills II 2 credits
- MUS 213---Music Skills III 2 credits
- MUS 214----Music Skills IV 2 credits

#### **History and Literature (12 credits):**

- MUS 150---Introduction to Musical Traditions 3 credits
- MUS 237---Introduction to World Music and Culture 3 credits
- MUS 350---Music History I 3 credits
- MUS 351---Music History II 3 credits

#### **Other Basic Musicianship Courses (5 credits)**

- MUS 204---Technology for Musicians 1 credit
- MUS 222---Basic Conducting 2 credits
- MUS 260---Basic Scoring 2 credits

#### **Performance (6 credits)**

- Choose 4 credits from the following:  
MUS 272 (A-G, I-U)
- Choose 2 credits from the following:  
(MUS 472 (A-G, I-U)

Note: Students must enroll in six semesters of performance study.

#### **Secondary Piano (4 credits):**

- MUS 195 Secondary Piano I 1 credit
- MUS 196 Secondary Piano II 1 credit
- MUS 295 Secondary Piano III 1 credit
- MUS 296 Secondary Piano IV 1 credit

Note: Students with substantial piano background can be exempted from piano after passing proficiency.

**Applied Piano (4 credits)**

- MUS 470R Applied Piano .5—1 credit

**Ensembles (8 credits):**

Choose 6 credits from the following:

- MUS 217-417 Masterworks Chorale 0 – 1 credit
- MUS 219-419 Concert Choir 0 – 1 credit
- MUS 259-459 University Symphony 0 – 1 credit

- MUS 269S-469S Symphonic Band 0 – 1 credit
- MUS 269W-469W Symphonic Wind Ensemble 0 – 1 credit

Two credits of Elective Ensembles

(Students are strongly advised to take advantage of chamber and large ensemble experiences available in both vocal and instrumental areas.)

**Composition (14 credits):**

- MUS 117 Introduction to Composition 2 credits
- MUS 282 Applied Composition 2 credits (repeated once for a total of 4 credits)*
- MUS 482 Advanced Composition 2 credits (repeated three times for a total of 8 credits)*

**Advanced Theory Courses (11 credits):**

- MUS 443 Counterpoint 3 credits
- MUS 445 Analytical Techniques of Tonal Music 3 credits
- MUS 446 Contemporary Styles and Techniques 3 credits
- MUS 460 Arranging for Band 2 credits

**Choose one from the following (3 credits):**

- MUS 452 Music in the Middle Ages and Renaissance 3 credits
- MUS 454 Music in the Baroque and Classical Eras 3 credits
- MUS 456 Music in the Romantic and Contemporary Eras 3 credits

**Recital (composition) (1 credit)**

- MUS 479 Senior Recital 1 credit
- Preferred effective term: Fall 2010*