College Mission Statement

Create innovative academic and business experiences through partnerships among students, faculty, staff, alumni, and the business community.

College Learning Goals and Objectives

College of Business undergraduates are expected to achieve the following learning goals and objectives.

Our graduates will be effective business communicators:
  - College of Business graduates will be able to create common business documents.
  - College of Business graduates will be able to deliver a business presentation using the appropriate technology.
  - College of Business graduates will be able to analyze business situations and respond with the appropriate channel, form, content, and format.

Our graduates will demonstrate business ethical awareness:
  - College of Business graduates will be able to identify ethical issues, decision alternatives and the consequences of those alternatives, including the impact on stakeholders in business decision making.

Our graduates will demonstrate problem solving skills:
  - College of Business graduates will be able to identify a wide array of business problems and their interdependencies.
  - College of Business graduates will be able to analyze situations and identify relevant factors that contribute to business problems by using appropriate quantitative and qualitative tools.
  - College of Business graduates will be able to generate a range of alternative solutions, analyze their feasibility and effectiveness, and recommend the optimal solution.
  - College of Business graduates will be able to develop action plans to implement the recommended solutions.

Our graduates will demonstrate common business knowledge:
  - College of Business graduates will be able to apply the theory of the management and control of money-related operations within a business.
College of Business graduates will be able to apply the theory and practice of the functions of Management.

College of Business graduates will be able to describe the process of planning and executing the conception, pricing, promotion and distribution of ideas, goods and services to create and keep customers.

College of Business graduates will be able to apply fundamental theory and manage processes to transform inputs into outputs for creating greater customer value.

College of Business graduates will be able to apply cross-functional concepts among the principles of business through the use of interdisciplinary exercises.

College of Business graduates will be able to identify the role and impact of information technology on organizations to support competitive advantage.

Career Compass

Department of Accountancy

Other catalog change: Page 74, 2012-13 Undergraduate Catalog

The Department of Accountancy offers … … and develop an understanding of ethical issues and professional conduct in business.

Accountancy Learning Goals and Objectives

Graduates of the Bachelor of Science in Accountancy program are expected to achieve these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives.

The NIU Bachelor of Science in Accountancy program provides essential study in accounting to prepare students at a level appropriate for entrance into the profession or graduate study.

1. Our graduates will be technically competent accounting professionals.
   Our students will:
   ● utilize analytic skills to identify accounting problems, generate appropriate solutions, and make informed decisions,
   ● apply technology tools to assist with problem solving.

2. Our graduates will be effective problem-solvers.
   Our students will:
   ● communicate in a professional manner,
   ● demonstrate effective teamwork skills,
   ● exhibit professional business conduct.
Our graduates will be ethical accounting professionals. Our students will demonstrate an understanding of relevant professional standards and codes of conduct.

Department Requirements

Department of Finance

Course revision: Page 79, 2012-13 Undergraduate Catalog

410. FINANCIAL MARKETS AND INVESTMENTS (3). … PRQ: UBUS 311 for all business majors; and ACCY 306 for business administration majors, and MGMT majors, and MKTG majors, and OMIS majors. CRQ: ACCY 331 for ACCY majors.

Other catalog change: Page 77, 2012-13 Undergraduate Catalog

Department of Finance

For the first … …. All three of these professional certification programs have set global standards for excellence in the world of finance.

Finance Learning Goals and Objectives

Graduates of the Bachelor of Science in Finance program are expected to achieve these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives.

1. The graduate must be able to list and distinguish the functional areas of finance.
   In order to be a successful financial professional one must understand the role that one's particular analysis plays in the broader agenda of the finance department of a corporation, bank, or other institution. Successful demonstration of this student learning outcome would indicate that the graduate is aware of the implications and the contributions of each of the functional areas to the achievement of the overarching goals of the unit within which the graduate will be working.

2. The graduate must be able to apply analytical tools to solve problems.
   Many of the tasks that must be performed by the financial manager, even the routine tasks, can be complex. It is therefore important that the graduate be able to decompose a problem into its constituent parts and understand the implications of the interplay among these constituents in order to provide a solution to a particular question or to establish a systematic policy that can be applied in various similar situations.

3. The graduate must be able to apply statistical tools to solve problems.
   The concept of risk is fundamental to every functional area of the discipline of finance. The idea of risk, in turn, is inextricable from the mathematical concept of probability; with which the discipline of
statistics is concerned. It is therefore imperative that every graduate from the finance program have a firm grasp of statistics, and is able to apply the tools and analyses from statistics to problems related to finance.

4. **The graduate must understand and be able to apply accounting skills.**
The discipline of finance originated as a subset of the field of accountancy. One could even say that in large part finance is the application of economic theory to accounting data. Very commonly the financial manager is using, as the basic fodder for his analyses, the output of accounting processes. Thus, it is important that every graduate acquire basic accounting skills and understand from whence the accounting data she is using is derived.

5. **The graduate must be able to use appropriate technology.**
The practice of modern business, in general, and finance in particular requires that the student be competent with several technological implements. Primary among the tools that graduates must master is the financial calculator. The students must also be familiar with spreadsheet, presentation, and word processing applications.

6. **The graduate must demonstrate adequate written and oral communication skills.**
Acquiring the skills necessary to perform advanced statistical and analytical analysis of a financial nature would be virtually useless if one were unable to communicate the results of such analysis to others. Thus it is necessary that graduates are able to adequately communicate in writing and with the spoken word.

7. **The graduate must demonstrate good interpersonal skills.**
In addition to acquiring skills specific to the practice of financial management and oral and written communication is important that graduates are able to work with others in an appropriate manner.

**Department Requirements**

**Department of Management**

New course: Page 82, 2012-13 Undergraduate Catalog

CIP: 52.02

421. GLOBAL SOCIAL VENTURE CONSULTING (3). Examination of strategic aspects of social entrepreneurship with a focus on developing and implementing strategies for global social ventures using an experiential learning approach. Opportunity to consult with global social ventures throughout the semester. PRQ: Grade of C or better in UBUS 310 or MGMT 320, and grade of C or better in MGMT 311, or consent of department. CRQ: MGMT 327.

APASC 11/28/12

New course: Page 82, 2012-13 Undergraduate Catalog
431. SOCIAL VENTURE COMPETITION (3). Develops knowledge and capabilities to create an innovative business model and a business plan to launch a new social venture. Examination of the commercial, social and technological factors unique to the contexts in which the social ventures will operate. Topics will include but are not limited to the value proposition offered, market drivers chosen, and revenue generation options to launch and sustain social enterprises. PRQ: Grade of C or better in MGMT 327 and MGMT 311, or consent of department.

APASC 11/28/12

New course: Page 82, 2012-13 Undergraduate Catalog

CIP: 52.02

460. HUMAN RESOURCE MANAGEMENT AND LEADERSHIP CONSULTING (3). Developing the content knowledge and skills to successfully design and implement internal and external organizational consulting projects. Topics include elements of successful strategic partnering, implementation and management of organizational change, applied management research, and human capital measurement. PRQ: MGMT major, MGMT 335, MGMT 355, and consent of the department.

Course revision: Page 81, 2012-13 Undergraduate Catalog

355. HUMAN RESOURCE MANAGEMENT (3). Introduction to human resource management principles, processes and systems, and measurement used by line managers and HR professionals to execute organizational strategy. Analysis Overview of the components of human resource management including organizational assessment and job analysis and design, human resource planning; recruitment and selection, total compensation and benefits administration, training and development, employee relations, program utility analysis, performance management, retention management, human resource management information systems, computer integration in human resource programs, and employment law. PRQ: MGMT 333 or UBUS 310 and UBUS 311, or consent of department.

Course revision: Page 82, 2012-13 Undergraduate Catalog

411. ENTREPRENEURSHIP IN MICROFINANCE ORGANIZATIONS (3). … PRQ: Junior or senior standing MGMT 311 or consent of department.

Course revision: Page 82, 2012-13 Undergraduate Catalog

436. COMPENSATION AND BENEFITS ADMINISTRATION (3). Design and implementation of organizational compensation systems aligned with organizational strategy.
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Consideration of internal equity requirements and external market considerations dynamics in wage system design through use of job evaluations and market surveys. Compensation as a means of effective recruitment, motivation, and retention of employees talent. Variable pay program design and execution. Benefits program design, cost containment, and program management. Performance appraisal processes and implementation of merit systems. Statutes affecting compensation practices (e.g., minimum wage laws, unemployment compensation, worker’s compensation). PRQ: Grade of C or better in MGMT 335 and MGMT 355.

Course revision: Page 82, 2012-13 Undergraduate Catalog

438. HUMAN RESOURCE PLANNING AND STAFFING (3). The design and application of recruitment and selection processes in organizations and retention systems for the effective management of human capital by line managers and HR professionals. Workforce planning and identification or work requirements. Identification of tools and processes that facilitate effective person-organization matching. Methods of job analysis used in determining requisite knowledge, skills, and abilities for job performance. Development of internal and external recruitment strategies. Choice and validation of selection devices instruments. Calculation and analysis of selection utility. Recruitment and selection in both line and staff capacities. PRQ: Grade of C or better in MGMT 335 and MGMT 355.

Course revision: Page 82, 2012-13 Undergraduate Catalog

444. TRAINING AND DEVELOPMENT (3). Training needs analysis at organizational, task, and individual levels. Design, implementation, and evaluation of training and development systems. Evaluation of types of training media. Coordination and integration of employees’ development with organizational human resource planning. Broadscale organization development efforts. Focus on the development of talent through training and development initiatives. Discussion of theories and business cases related to training needs analysis, design, implementation, transfer, and evaluation; coaching and mentoring programs, career development, 360-degree feedback, succession planning, and other developmental interventions. Alignment of training and development programs with business strategy and human resource planning. PRQ: Grade of C or better in MGMT 335 and MGMT 355.

Course revision: Page 82, 2012-13 Undergraduate Catalog

448. EMPLOYMENT LAW (3). Legal environment and regulatory process in human resource management. Design and application of legal compliance systems in human resource management. Specific areas of study include management rights to discipline and discharge, employee rights to organize and engage in concerted activity, the legal framework of contract negotiations and administration, fair employment practices, and other selected legal influences. Employment contracts, workplace privacy issues, Title VII of the Civil Rights Act, disability discrimination, sexual harassment, work safety laws, benefits laws and union-management relations. PRQ: Grade of C or better in MGMT 335 and MGMT 355.

Other catalog change: Page 80, 2012-13 Undergraduate Catalog
Note: The copy below is taken from the First Meeting of the CUC, dated September 13, 2012, Section B.

Department of Management (MGMT)

The Department of Management offers B.S. degrees in management and in business administration, a minor in business innovation and entrepreneurship, and an undergraduate certificate in social entrepreneurship.

Major in Management (B.S.)

Students pursuing the B.S. degree in management select one of two emphases: leadership and management or human resource management. Students in the leadership and management emphasis are prepared for management trainee, supervisory, or other management positions in a variety of commercial enterprises. This emphasis also enhances students’ preparation for entrepreneurial and consulting endeavors. Students in the human resource management emphasis are prepared for entry-level positions as human resource generalists or specialists in a variety of firms.

Management Learning Goals and Objectives

Graduates of the Bachelor of Science in Management program are expected to demonstrate these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives. Graduates of our program will demonstrate the following:

1. Problem-Solving Competencies
   - Effectively carries out all steps of decision-making process
   - Applies management principles throughout process
   - Recognizes and thoughtfully considers ethical implications when making management decisions

2. Relationship Building Competencies
   - Participates actively in team projects and positively influences team outcomes
   - Builds effective relationships with peers, mentors, and business partners
   - Proactively manages interpersonal conflict
   - Respects and leverages diversity in backgrounds and perspectives

3. Communication Competencies
   - Produces professional business documents
   - Delivers professional presentations
   - Appropriately seeks and utilizes feedback for improvement

4. Career and Self-Leadership Competencies
   - Develops and acts upon a long-term career vision
   - Understands and leverages professional strengths
   - Understands and overcomes professional weaknesses
   - Actively seeks out opportunities to build professional expertise
   - Demonstrates professionalism in interaction with others

Requirements
Major in Business Administration (B.S.)

Students pursuing the B.S. degree in business administration will be prepared for a wide range of entry-level positions in a variety of organizations. The curriculum provides a broad-based education in all functional areas of business, including accounting, finance, management, marketing, and operations management and information systems.

Business Administration Learning Goals and Objectives

Graduates of the Bachelor of Science in Business Administration program are expected to achieve these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives.

The Business Administration program prepares graduates for a variety of entry-level positions in both the private and public business sectors. It is a generalist degree unlike other majors in the College of Business. Graduates of the Business Administration program are expected to demonstrate:

1. the ability to solve practical business problems.
2. the ability to identify and describe relationships among the primary business functional areas.
3. mastery of oral, written and verbal communication skills.
4. mastery of computer applications used in business environment.
5. awareness of ethical issues in business organizations.

Requirements

Emphasis 1. Leadership and Management
Requirements in Department (25)

One of the following (3)

- ACCY 306 – Financial Accounting Information for Business Decisions (3)
- MGMT 327 – Creativity, Innovation, and Entrepreneurship (3)
- MGMT 460 – Human Resource Management and Leadership Consulting (3)
- MGMT 487 – Multinational Management (3)

Requirements in Department (25)

One of the following (3)

- MGMT 456 – Practicum in Human Resource Management (3)
MGMT 460 – Human Resource Management and Leadership Consulting (3)
MGMT 498 – Equal Opportunity and Employment (3)
PSYC 471 – Industrial-Organizational Psychology (3)
TECH 402 – Industrial Training and Evaluation (3)
TECH 434 – Human Factors in Industrial Accident Prevention (3)
TECH 435 – Legal Aspects of Safety (3)

Department of Marketing

Other catalog change: Page 84, 2012-13 Undergraduate Catalog

Department of Marketing (MKTG)

The interactive marketing area of study offers students a curriculum to prepare for careers …

Marketing Learning Goals and Objectives

Graduates of the Bachelor of Science in Marketing program are expected to achieve these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives.

Graduates of the Marketing program will have:

1. The ability to apply marketing concepts. Graduates must demonstrate an understanding of the process of planning and executing the conception, pricing, promotion and distribution of ideas, goods, and services to attract and retain customers. Key marketing concepts include those related to product, pricing, promotion, distribution, sales, management, market and business environments, and customer relationships and target markets.

2. Mastery of problem solving and critical thinking skills. Graduates must demonstrate marketing related problem solving and critical thinking skills using qualitative and/or quantitative tools. Graduates will demonstrate the ability to develop feasible solutions within fluid and situation specific business environments. Specific skills to demonstrate problem solving and critical thinking skills include analyzing key factors leading to the identification of a problem/opportunity, conducting appropriate analyses to generate information, and utilizing generated information to develop suitable potential solutions to marketing problems based upon available resources and restrictions.

3. Mastery of written communication skills. Graduates must demonstrate the ability to collect, organize, interpret, and coherently present information in written format. Graduates will use proper grammar and language in developing business memos, formal business letters, business proposals, and business reports.
4. Mastery of oral communication skills. Graduates must demonstrate the ability to collect, organize, interpret, and coherently present information in an oral format. Graduates will use situation appropriate grammar, language, and professionalism to effectively convince and/or persuade and audience.

5. The ability to understand and effectively apply marketing metrics. Graduates must demonstrate an understanding of key marketing metrics and ability to utilize marketing metrics effectively in the analysis and solving of marketing problems. Specific skills graduates should master might include the ability to perform break-even point analysis, ratio analysis and other key metric analysis. Other key metrics analysis could include those relating to: 1) marketing planning and customers (e.g., market growth rates, market share, marketing cost per unit, customer acquisition costs, and return on investment); 2) product, price, and promotion offerings (e.g., new product purchase rates, advertising to sales ratios, gross rating points, response rates, conversion rates, costs per click, transactions per customer, and average transaction size); and 3) sales efforts (e.g., sales turnover rates, sales performance quotas, sales variances, and straight/profit based commissions).

6. The ability to work effectively in teams. Graduates must possess the ability to work effectively with a group of other individuals to accomplish a mutual goal and produce high quality outcomes while recognizing the benefits and difficulties of working in teams. Specific skills graduates demonstrate include goal commitment, mutual respect, effective communication, flexibility and productivity.

7. Understanding of the global business environment. Graduates must demonstrate and understanding of the global forces that shape firms’ domestic and global marketing strategies. Such forces would include those related to political, legal, economic, cultural, and financial variables.

8. Ethical awareness. Graduates must demonstrate an awareness of and personal philosophy toward ethical practices.

Department Requirements

Major in Marketing (B.S.)

Requirements in Department (21-24)

Interactive Marketing (12)
- MKTG 355 – Direct Marketing (3)
- MKTG 370 – Internet Marketing (3)
- MKTG 443 – Marketing Research (3)
- MKTG 470 – Interactive Marketing Technology (3)

Two One of the following (6) (3)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

MKTG 348 – Integrated Marketing Communications (3)
MKTG 355 – Multichannel Direct Marketing (3)
MKTG 455 – Database Marketing Management (3)
MKTG 470 – Interactive Marketing Technology (3)
OMIS 452 – Database Management for Business (3)

Other catalog change: Page 84, 2012-13 Undergraduate Catalog

Minor in Marketing (24-34)

New students are currently not being admitted to the minor in marketing.

Retention in the marketing minor is competitive based on the student’s overall GPA and a grade of C or better in UBUS 310 or MKTG 310.

Other Catalog Change

Certificates of Undergraduate Study
Interactive Marketing (12)

Required courses:
- MKTG 355 – Direct Marketing (3)
- MKTG 370 – Internet Marketing (3)
- MKTG 443 – Marketing Research (3)
- MKTG 470 – Interactive Marketing Technology (3)

Two of the following:
- MKTG 348 – Integrated Marketing Communications (3)
- MKTG 355 – Multichannel Direct Marketing (3)
- MKTG 455 – Database Marketing Management (3)
- MKTG 470 – Interactive Marketing Technology (3)
- OMIS 452 – Database Management for Business (3)

Department of Operations Management and Information Systems

Course revision: Page 90, 2012-13 Undergraduate Catalog

352. MANAGING PROJECTS IN BUSINESS (3). Focus on the application and integration of concepts, processes, and tools to plan and manage business projects. Topics will include the core areas of project management as defined in the Project Management Body of Knowledge (PMBOK). CRQ: UBUS 310, CRQ: OMIS 351, or consent of department.

Other catalog change: Page 88, 2012-13 Undergraduate Catalog
Department of Operation Management and Information Systems (OMIS)

Business Systems Analysis prepares students for entry-level positions as business systems.

Operations Management and Information Systems Learning Goals and Objectives

Graduates of the Bachelor of Science in Operations and Information Management program are expected to achieve these learning goals and objectives in addition to the College of Business Undergraduate Learning Goals and Objectives.

Graduates with a Bachelor’s degree in Operations and Information Management will produce innovative solutions to deliver products and services more efficiently and effectively in today’s business environment. Our graduates will have:

1. Processes: To Provide The Student With The Knowledge to Manage Business Processes
   - Conceptualization: The student will conceptualize business as a collection of processes.
   - Process Evaluation: The student will illustrate proficiency with business process evaluation.
   - Process Improvement: The student will exhibit the ability to improve business processes.

2. Technology: To Provide The Student With The Knowledge to Apply Information Technology Effectively
   - Hardware: The Student Will Display An Understanding of Hardware Technology
   - Software: The Student Will Display An Understanding of Software Technology
   - Data: The Student Will Display An Understanding of Data Technology
   - Networking: The Student Will Display An Understanding of Network Technology

3. Managing Projects: To Provide Students With Experience In Solving Business Problems
   - Project Management: The student will demonstrate an ability to manage a project.
   - Project Integration: The student will be able to improve processes through the application of information technology appropriately.

Department Requirements

Certificates of Undergraduate Study

Business Analytics Using SAP Software (12)
Coordinator: Steven Kispert, Department of Operations Management and Information Systems

This certificate is designed for all majors. Business Analytics is a broad category of technologies.
applications, and practices for gathering, storing, accessing, and analyzing enterprise data to support effective decision making. Business Analytics has been consistently ranked as one of the top 5-5 technology priorities during the past several years by chief information officers in Gartner’s annual survey of IT executives. SAP is the market leader in business analytics application software. A certificate in Business Analytics Using SAP Software will allow students to understand how to run organizations more effectively by improving various business processes and using SAP technology.

Students must maintain good academic standing within the university, achieve a minimum grade of a C in each course applied toward the certificate, and complete all certificate course work within a period of four calendar years. Only courses taken at NIU may be applied toward the certificate. Courses used to satisfy the requirements for the certificate may only be applied toward an undergraduate degree with approval of the major department. Some courses may have prerequisites that are not part of the certificate curriculum.

Students interested in the certificate should apply no later than the beginning of their final semester prior to graduation, but they are urged to apply as soon as they complete UBUS 310 or OMIS 338 so the coordinator may advise students regarding course scheduling. Applications are available in the Department of Operations Management and Information Systems.

Pre-Admission Requirements:
OMIS 338 – Principles of Operation Management (3)
OR UBUS 310 – Business Core: Lecture (9)

Required Courses:
OMIS 444 – Manufacturing Technology Management (3)
OMIS 455 – Enterprise Resource Planning (3)
OMIS 478 – Supply Chain Systems (3)
OMIS 485 – Current Topics in Operations Management and Information Systems (SAP) (3)

COLLEGE OF EDUCATION

Department of Educational Technology, Research and Assessment

New Course Undergraduate Catalog

CIP Code: 13.0601

ETR 450. DATA ANALYSIS FOR DESIGN AND EVALUATION (3). Introduction to the evaluation of instructional and training programs. Exploration of data collection methods and analysis approaches used to assess effectiveness of instructional and training programs, both during the instructional development process or after intended trainings are delivered. PRQ: ETT 310 and ETR 340; or consent of the instructor.

Department of Kinesiology and Physical Education
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Course Deletion

KNPE 336. FITNESS EDUCATION (1)

New Course

KNPE 266. EMERGENCY MEDICAL RESPONSE (3). Designed specifically for an individual in Athletic Training who has a duty to respond in an emergency situation. This course covers professional rescuer skills and knowledge related to emergency assessment; airway and ventilation, cardiopulmonary resuscitation and automatic external defibrillation (AED), medical trauma emergencies, sudden illness, and emergency medical service (EMS) operations. American Red Cross Emergency Medical Response and CPR for the Professional Rescuer certificates granted upon successful completion of course and ARC requirements. Consent of department.

Course Revision

KNPE 331. CLINICAL EXPERIENCE IN ATHLETIC TRAINING I (3). Preprofessional clinical, field, and first Emergency Medical responder experiences in a diverse, service-learning partnership. Review and refinement of psychomotor athletic training skills and dispositions with the primary focus on prevention, emergency care, and therapeutic modalities. PRQ: KNPE 265 and KNPE 266.

Other Catalog Change

Major in Athletic Training (B.S.)

Requirements in Department (71-73-74)

KNPE 243 - Program Development of Resistance Training (1)
KNPE 262 - First Aid and CPR (2)
KNPE 264 - Principles of Injury Prevention and Care (3)
KNPE 265 - Practicum in Athletic Training (3)
KNPE 266 - Emergency Medical Response (3)
KNPE 310 – Psychological Aspects of Sport and Exercise (3)

Requirements outside Department (22-24)

AHCD 318 - Medical Terminology (3)
BIOS 101 - General Biology (4)
OR BIOS 103 - General Biology (3)
OR BIOS 208 - Fundamentals of Cellular Biology (3)
AND BIOS 210 - Fundamentals of Cellular Biology Laboratory (1)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

BIOS 311 - Functional Human Anatomy (4)

Total Hours for a Major in Athletic Training: 93-9298

Other Catalog Change

Major in Kinesiology (B.S.)

Requirements outside Department (19-20)

*BIOS 101 - General Biology (4)
*CHEM 110 - Chemistry (3)

Other Catalog Change

Major in Kinesiology

One of the following

AHLS 211 - Introduction to the Clinical Medical Laboratory Sciences (3)
AHPE 417 - Pathology and Pharmacology for Physical Therapists (3)
*PHHE 295 – Introduction to Public Health (3)

Department of Literacy

Course Revision

LTCY 202 - 100. INDIVIDUALIZED COMPETENCY UNIT (1). Successful mastery by the student of a discrete professional competence in education, embodied in a standardized learning package, and measured by diagnostic as well as summative evaluations. Units monitored by members of the faculty. May be repeated to a maximum of 6 semester hours. S/U grading applies.

COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY

All University Section

Other Graduation Requirements

Other Catalog Change: Page 40, 2012-13 Undergraduate Catalog

Special Requirements for the B.S. Degree in Electrical, Industrial and Systems, and Mechanical Engineering
Candidates for the B.S. Degree in electrical, industrial, and mechanical engineering must earn a minimum of 15 semester hours of course work in humanities, arts, social sciences, and interdisciplinary areas. Students must consult with their faculty advisers to determine appropriate courses.

All engineering students must have their schedule reviewed, approved, and signed by their faculty advisers each semester. Any deviation from an approved course schedule may delay graduation.

Department of Electrical Engineering

Mission

Electrical Engineering Program Educational Objectives

Program Learning Outcomes

The electrical engineering program is designed to provide our graduates with the:

A. Ability to apply their knowledge of mathematics, science, and engineering.
B. Ability to design and conduct experiments, as well as to analyze and interpret data.
C. Ability to design a system, component, or process to meet desired needs.
D. Ability to function on multi-disciplinary teams.
E. Ability to identify, formulate, and solve engineering problems.
F. Understanding of professional and ethical responsibility.
G. Ability to communicate effectively.
H. Broad education necessary to understand the impact of engineering solutions in a global and societal context.
I. Recognition of the need for, and an ability to engage in lifelong learning.
J. Knowledge of contemporary issues.
K. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Course Revision 2012-13 Undergraduate Catalog

380. COMPUTATIONAL METHODS IN ENGINEERING DESIGN (3). Number representation, … … linear programming. PRQ: CSCI 240, MATH 336, and MEE 211. CRQ: MEE 212.

Other Catalog Change 2012-13 Undergraduate Catalog

Department Requirements

All mechanical engineering students must have their schedule reviewed, approved, and signed by their faculty adviser each semester. Any deviation from an approved course schedule may delay graduation.

Major GPA will be calculated using all MEE courses and up to one course taken outside the department which satisfies the group B technical elective requirement. The GPA calculation will only include courses taken at NIU.

Other Catalog Change 2012-13 Undergraduate Catalog

Major in Mechanical Engineering (B.S.)

Requirements in Department (65-66)

↓
MEE 212 - Strength of Materials Credits (3)
MEE 220 - Mechanism Design Credits (3)
MEE 270 - Engineering Graphics (3)
MEE 320 - Mechanism Design and Analysis (3)
MEE 321 – Mechanical Vibrations I (3)
↓
Group-B: Other Electives
↓
ISYE 451 – Expert Systems in Engineering (3)
TECH 344 – Materials and Processes in the Plastics Industry (3)
TECH 345 – Plastic Molding Processes (4)
↓

Other Catalog Change 2012-13 Undergraduate Catalog

Minor in Mechanical Engineering (21)
↓
SECTION A – Recorded for inclusion in the Undergraduate Catalog

MEE 212 - Strength of Materials Credits: 3
MEE 220 - Mechanism Design Credits: 3
MEE 270 - Engineering Graphics Credits: 3
MEE 320 – Mechanism Design and Analysis (3)
MEE 350 – Engineering Thermodynamics (3)

Department of Technology

New Course: Undergraduate Catalog 2012-13

CIP CODE: 015.0000

445. INDUSTRIAL ENERGY UTILIZATION AND ENVIRONMENTAL IMPACTS (3). Organizational approaches to establish, implement, maintain and improve industrial energy and sustainability are discussed including ISO 50001 energy management systems and lean principles. These approaches apply to all aspects of energy use and enable an organization to take a systematic approach to achieving continual improvement of energy and environmental sustainability performance. The implementation of lean practices prevents pollution, reduces waste and highlights opportunities to reuse. How to define, develop and manage sustainable solutions including core concepts associated with leadership in energy and environmental design (LEED) and greenhouse gas inventory methods will also be covered. Topics will be discussed from an applied perspective of technology practices, management, responsibilities, and policies. PRQ: MATH 155 with a C or better, and CHEM 110 or CHEM 210.

APASC 10/31/12

Course Revision 2012-13 Undergraduate Catalog

429. PLANT LOCATION, LAYOUT, AND MATERIALS HANDLING (3). Analysis of plant … … are presented. PRQ: TECH 265 and MATH 155 with a C or better and TECH 265.

Course Revision 2012-13 Undergraduate Catalog

479. SPECIAL TOPICS IN ENGINEERING TECHNOLOGY (3). Current topics of interest. May be repeated to a maximum of 6 semester hours provided no repetition of topic occurs. Can enroll in multiple sections in a single semester. PRQ: Consent of department.

Other Catalog Changes: Undergraduate Catalog 2012-13

Department of Technology (TECH)

Mission

The mission of the Department of Technology encompasses the transmission, expansion and application of
Section A – Recorded for inclusion in the Undergraduate Catalog

Received by the Undergraduate Coordinating Council December 6, 2012

Committee on the Undergraduate Curriculum (CUC)
Third Meeting/2012-13 Academic Year
November 8, 2012

Section A – Recorded for inclusion in the Undergraduate Catalog

The Department of Technology prepares technically oriented professionals for leadership, management, and service positions in business, industry, education, and government. The major in technology includes emphases in electrical engineering technology, manufacturing engineering technology, nuclear engineering technology, and industrial technology. Instruction in these emphases prepares the department seeks to improve productivity, safety, and the well being of society through combining scientific, engineering, and management knowledge with technical skills. The history of the Department of Technology reflects flexibility in the face of change and consistency in the pursuit of excellence to provide lifelong learning by recognized national and international leadership.

Abilities such as leadership, practical applications, problem solving, creativity, intellectual curiosity, and a positive attitude toward lifelong learning are skills that are fundamental to the modern industrial community served by the Department of Technology. These needs are met in harmony with the university, educating traditional and non-traditional students through career preparation and enhancement programs. The faculty accomplishes these tasks using a variety of flexible, innovative, interesting, and creative course delivery systems.

Maintaining a high level of professionalism, the faculty remains flexible in the face of change while balancing theory and practice. Thus, individuals are prepared for making a seamless transition to employment becoming productive, contributing members of society.

Educational Objectives

The Department undergraduate programs seek to educate our graduates with skills that will allow them to immediately enter the technical workforce and excel. Graduates of the program will:

- Acquire a well-balanced knowledge in the theory and practice within the areas of technology.
- Utilize laboratory based skills and modern engineering equipment used in industry.
- Provide effective, responsible, and articulate leadership in our complex society.
- Understand the need for obtaining new knowledge, including technological advances, and be capable of self-renewal, and life-long learning.
- Seek and apply creative and analytical insight in the solution of engineering-type problems.
- Provide technical communications in both oral and written forms, using many presentation styles.
- Function as part of an interdisciplinary team and manage projects effectively.

Program Outcomes

The department’s undergraduate program is designed to provide graduates with the ability to apply knowledge of mathematics, science, and engineering; the ability to design and conduct experiments, as well as analyze and interpret data; the ability to design a system, component, or process to meet design
needs; the ability to function on multidisciplinary teams; the ability to identify, formulate, and solve technical problems; an understanding of professional and ethical responsibility; the ability to communicate effectively; a broad education necessary to understand the impact of technology in a global and social context; a recognition of the need for, and an ability to engage in, lifelong learning; a knowledge of contemporary issues; and the ability to use the techniques, skills, and the modern engineering tools.

Other Catalog Change: 2012-13 Undergraduate Catalog

Major in Technology

Emphasis 1. Electrical Engineering Technology

Requirements in Department (66-67)

\[\text{Select two of the following (6)\} \]
\[\text{Select three of the following (9)\} \]
\[\text{Select two of the following (6-7)\} \]
\[\text{TECH 295 – Manufacturing Computer Applications (3), OR CSCI 215 – Visual Basic (4)\} \]
\[\text{TECH 409 – Internship (3)\} \]
\[\text{TECH 418 – Biobased Fuels and Alternative Energy Applications (3)\} \]
\[\text{TECH 419 – Energy Auditing (3)\} \]
\[\text{TECH 425 – Programmable Electronic Controllers (3)\} \]
\[\text{TECH 445 – Industrial Energy Utilization and Environmental Impacts (3)\} \]

Requirements outside Department (29-30)

\[\text{Emphasis 6. Energy and Environmental Technology\} \]

Requirements in Department (45-56)

\[\text{TECH 417 – Design for Energy Efficiency and Green Materials (3)\} \]
\[\text{TECH 418 – Biobased Fuels and Alternative Energy Applications (3)\} \]
\[\text{TECH 419 – Energy Auditing (3)\} \]
\[\text{TECH 426 – Electric Systems Applications for Alternative Energy (3)\} \]
\[\text{TECH 432 – Disaster Preparedness (3)\} \]
\[\text{TECH 443 – Engineering Economy (3)\} \]
\[\text{TECH 445 – Industrial Energy Utilization and Environmental Impacts (3)\} \]
\[\text{TECH 484 – Energy Management (3)\} \]
\[\text{TECH 496 – Industrial Project Management (3)\} \]
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Technical Electives (96)
Select three of the following:
- ENVS 301 – Environmental Sciences I: Physical Systems (3)
- TECH 411 – Hazard Controls in Industrial Operations (3)
- TECH 479 – Special Topics in Engineering Technology (3)

Other Catalog Change

Major in Technology (B.S.)

Emphasis 5. Aviation Management Technology

Admission to the aviation management technology emphasis is limited to students who possess an A.A.S. degree in aviation maintenance technology from a community college. Entry into this program also requires that the students complete their F.A.A. Airframe and Power Plant certificates. Students in this emphasis are exempt from the 30 semester hour university residence requirement. A grade of C or better is required in MATH 155.

Minor in Energy Technology (24)

- TECH 417 – Design for Energy Efficiency and Green Materials (3)
- TECH 418 – Biobased Fuels and Alternative Energy Applications (3)
- TECH 419 – Energy Auditing (3)
- TECH 445 – Industrial Energy Utilization and Environmental Impacts (3)
- TECH 484 – Energy Management (3)

COLLEGE OF HEALTH AND HUMAN SCIENCES

Course Deletions
- UHHS 401. QUALITY OF LIFE DURING PROTON THERAPY (3).
- UHHS 402. SCIENTIFIC BASIS OF PROTON THERAPY (3).
- UHHS 403. PROFESSIONAL PERFORMANCE AND PATIENT CARE DURING PROTON THERAPY (3).
- UHHS 415. PROTON THERAPY METHODS FOR RADIATION THERAPISTS (3).
- UHHS 416. PRACTICUM IN PROTON THERAPY (1-3).

Course Revision
SECTION A – Recorded for inclusion in the Undergraduate Catalog

UHHS 466. SEMINAR TOPICS IN GERONTOLOGY (3). … ….

Certificates of Undergraduate Study
Gerontology (15)

Primary Content Area (9-12)
IDSP 465 - Issues in Gerontology (3)
Course work from the following (3-9)
UHHS 466 - Seminar Topics in Gerontology (3-6)

School of Allied Health and Communicative Disorders

Course Deletions

AHPT 400. INTRODUCTION TO PHYSICAL THERAPY (2).
AHPT 402. PHYSICAL THERAPY AND THE HEALTH CARE SYSTEM (1).
AHPT 403. COMMUNICATION AND PATIENT EDUCATION SKILLS FOR PHYSICAL THERAPISTS (3).
AHPT 404. CASE STUDIES IN PHYSICAL THERAPY I (1).
AHPT 409. PHYSICAL THERAPY RESEARCH I (2).
AHPT 410. PHYSICAL THERAPY SCIENCE I (4).
AHPT 411. PHYSICAL THERAPY SCIENCE II (4).
AHPT 412. PHYSICAL THERAPY SCIENCE III (2).
AHPT 413. MUSCULOSKELETAL BASIS OF HUMAN MOVEMENT FOR PHYSICAL THERAPISTS (2).
AHPT 417. PATHOLOGY AND PHARMACOLOGY FOR PHYSICAL THERAPISTS (3).
AHPT 425. MOTOR DEVELOPMENT FOR PHYSICAL THERAPISTS (3).
AHPT 440. EVALUATION AND TREATMENT OF MUSCULOSKELETAL DISORDERS: EXTREMITIES (4).
AHPT 442. MEDICAL MANAGEMENT OF MUSCULOSKELETAL DISORDERS (3).
AHPT 460. CLINICAL EXPERIENCE I (1).
AHPT 461. CLINICAL EXPERIENCE II (3).
AHPT 462. CLINICAL EXPERIENCE III (4).
AHPT 465. MOCK CLINIC FOR PHYSICAL THERAPISTS (1).

Course Revisions Page 154-155, 2012-13 Undergraduate Catalog

Clinical Laboratory Sciences (AHLS)

211. INTRODUCTION TO THE CLINICAL MEDICAL LABORATORY SCIENCES (3). Introduction to the profession of clinical medical laboratory sciences and to the clinical medical laboratory scientist’s role in the delivery of health care. Introduction to the major work components performed in the clinical laboratory. To be taken by all pre-professional students or majors for 3 semester hours.

336. CLINICAL MEDICAL DIAGNOSTIC MICROBIOLOGY/MYCOLOGY/PARASITOLOGY (3). ……

337. CLINICAL MEDICAL DIAGNOSTIC MICROBIOLOGY/MYCOLOGY/AND PARASITOLOGY LABORATORY (2). ……

344. CLINICAL MEDICAL DIAGNOSTIC BIOCHEMISTRY (3). ……

345. CLINICAL MEDICAL DIAGNOSTIC BIOCHEMISTRY LABORATORY (2). ……

448. INTRODUCTION TO RESEARCH IN CLINICAL MEDICAL LABORATORY SCIENCES (3). ……

470. TOPICS IN APPLIED CLINICAL MEDICAL LABORATORY SCIENCES.

N. Special Topics (1-6)

Lecture and laboratory experiences to be directed by clinical medical laboratory sciences program officials. PRQ: Acceptance into the clinical laboratory sciences major.
471. **CLINICAL MEDICAL LABORATORY SCIENCE LECTURE SERIES (3).** Advanced lectures and practical assessment in clinical medical laboratory sciences by faculty and invited guest speakers with expertise in specialty topics. Course may be repeated for up to 6 semester hours. PRQ: Grades of C or better in all AHLS 300-level courses, or consent of school.

475. **CLINICAL MEDICAL LABORATORY SCIENCES COMPETENCY (1).** … …

---

### Major in Clinical Laboratory Sciences (B.S.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHLS 211</td>
<td>Introduction to the Clinical Medical Laboratory Sciences (3)</td>
</tr>
<tr>
<td>AHLS 336</td>
<td>Clinical Medical Diagnostic Microbiology/Mycology/Parasitology (4)</td>
</tr>
<tr>
<td>AHLS 337</td>
<td>Clinical Medical Diagnostic Microbiology/Mycology/Parasitology Laboratory (2)</td>
</tr>
<tr>
<td>AHLS 344</td>
<td>Clinical Medical Diagnostic Biochemistry (3)</td>
</tr>
<tr>
<td>AHLS 345</td>
<td>Clinical Medical Diagnostic Biochemistry Laboratory (2)</td>
</tr>
<tr>
<td>AHLS 448</td>
<td>Introduction to Research in Clinical Medical Laboratory Sciences (2)</td>
</tr>
<tr>
<td>AHLS 470</td>
<td>Topics in Applied Clinical Medical Laboratory Sciences (18)</td>
</tr>
<tr>
<td>N. Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>AHLS 471</td>
<td>Clinical Medical Laboratory Science Lecture Series (6)</td>
</tr>
<tr>
<td>AHLS 472</td>
<td>Diagnostic Molecular Biology (2)</td>
</tr>
<tr>
<td>AHLS 475</td>
<td>Clinical Medical Laboratory Sciences Competency (1)</td>
</tr>
</tbody>
</table>

**Total Hours for a Major in Clinical Medical Laboratory Sciences:** 97-102
Additional prerequisites for emphasis in 04 certification (12-16 15)
*BIOS 103, General Biology (3), OR *BIOS 104, General Biology (4), OR *BIOS 109, Human Biology (3)

Additional prerequisites for emphasis in 04 certification with preschool special education approval (19)
Admission to teacher education takes place upon passing the ICTS Test of Academic Proficiency, having a cumulative GPA of at least 2.75 2.50, having a grade of C or better in all required courses completed after admission to the emphasis, and successful completion of the first professional semester. Retention in teacher education is contingent on maintaining a cumulative GPA of 2.75 2.50 or higher and having a grade of C or better in all required courses completed in subsequent semesters. Students must provide current verification of TB test prior to the first clinical course.

General Education Requirements

Sciences and Mathematics (7-11)
FCNS 201. Human Nutrition (3). Role of … ….. PRQ: One year of high school chemistry and BIOS 103, BIOS 104, or BIOS 109, or equivalent.

Interdisciplinary Studies (3-6)
FCNS 406. Global Food and Nutrition Issues (3). Interdisciplinary study …….. PRQ: BIOS 103, BIOS 104, or BIOS 109 and ANTH 120 or SOCI 170 or equivalent.
School of Family, Consumer and Nutrition Sciences

Course Deletions

Nutrition, Dietetics, and Hospitality Administration

301. INTRODUCTION TO FOOD SERVICES (3).
321. COMPUTER APPLICATIONS IN FOODSERVICE MANAGEMENT (3).
428. EXPERIMENTAL FOODS (3).

New Course

CIP code 51.3101

Nutrition, Dietetics, and Hospitality Administration

303. HOSPITALITY LAW (3). Introduction to the principles of hotel, restaurant, and travel law. Case studies of industry related regulations on duty of innkeepers, dram shop laws, truth in menu laws, and service contracts in the hospitality industry. PRQ: MGMT 217. CRQ: FCNS 302.

Course Revision

General

256. COOPERATIVE EDUCATION I (1-3).
A. Child Development
B. Family Social Services
C. Nutrition, Dietetics, and Hospitality Administration

356. COOPERATIVE EDUCATION II (1-3).
A. Child Development
B. Family Social Services
C. Nutrition, Dietetics, and Hospitality Administration

431. INTERNSHIP (1-15).
A. Child Development
B. Family Social Services

Supervised participation in … ….. S/U grading basis may be used. May be repeated to a maximum of 15 semester hours. See special requirements as may apply to internships according to major. PRQ: Consent of school.
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Course Revisions

Nutrition, Dietetics, and Hospitality Administration

201. HUMAN NUTRITION (3). Role of … …. PRQ: One year of high school chemistry and BIOS 103, BIOS 104, BIOS 109, BIOS 208, or equivalent.

309. SCIENCE OF NUTRITION (3). Study of … …. PRQ: BIOS 103 and BIOS 105, CHEM 230 or CHEM 330, and BIOS 104. CRQ: BIOS 357.

406. GLOBAL FOOD AND NUTRITION ISSUES (3). Interdisciplinary study … …. PRQ: BIOS 103, BIOS 104, or BIOS 109 and ANTH 120 or SOCI 170 or equivalent.

Other Catalog Change

Comprehensive Major in Family and Child Studies (B.S.)

Emphasis 2. Family Social Services

Requirement in School (40 43)

FCNS 431B – Internship: Family Social Services (7)
FCNS 445 – Management of Human and Family Resources (3)
FCNS 481 – Professional Practices in Family Social Services (3)
FCNS 484 – Family Theories (3)

One of the following (3)

FCNS 384 – Asian American Families (3)
FCNS 438 – Parent Education (3)
FCNS 482 – Child Abuse and Neglect (3)
FCNS 483 – Social Policy, Children and Families (3)
FCNS 486 – Aging and the Family (3)
FCNS 488 – Working with Ethnically Diverse Children and Families in the U.S. (3)
PSCY 316 – Introduction to Psychopathology (3)
SOCI 358 – Racial and Ethnic Minority Families (3)

Special Requirements
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Complete a total of 100 certified hours of approved community service, at least 50 hours completed prior to enrolling in FCNS 383 and the balance completed prior to enrolling in FCNS 431B. Prior to registering for FCNS 431B, NIU must have a signed affiliation agreement with the agency where the student will be serving their internship.

Emphasis 3. Child Development

Requirements outside School (15-17)  
*BIOS 103 - General Biology (3),  
OR *BIOS 104 - General Biology (4),  
OR *BIOS 109 - Human Biology (3)

Total Hours of Emphasis 3, Child Development: 66-68

Other Catalog Change Page 160, 2012-13 Undergraduate Catalog

Emphasis 3. Child Development

Special Requirements

and certification in first aid and cardiac pulmonary resuscitation (CPR);  
and proof of Illinois Network of Childcare Resource and Referral Agencies’ Gateway Registry  
and consent of the school.

Professional liability insurance is provided through a course fee.

Major in Textiles, Apparel, and Merchandising (B.S.)

Requirements in School (30-34)

Two of the following (6)

FCNS 272 - Merchandising Promotion (3)  
FCNS 367 - Computer Applications for Textiles, Apparel, and Merchandising (3)  
FCNS 369 - Fashion Design and Illustration (3)  
FCNS 4501 - Workshop in Family, Consumer, and Nutrition Sciences (3)  
FCNS 456 - Apparel Product Development (3)  
FCNS 457 - Professional Development for Apparel Merchandising (3)
Emphasis 1. Hospitality Administration

**Requirements in School (42-43 45-46)**
- FCNS 302 - Lodging Operations (3)
- FCNS 303 - Hospitality Law (3)
- FCNS 316 - Hospitality Service (3)

**Requirements outside School (34-36 35)**
- ACCY 206 - Introductory Financial Accounting (3)
  - OR ACCY 288 - Fundamentals of Accounting (3)
- *BIOS 103 - General Biology (3),
  - OR *BIOS 104 - General Biology (4),
  - OR *BIOS 109 - Human Biology (3)

Total Hours for Emphasis 1. Hospitality Administration: **79-82 76-79**

Emphasis 2. Nutrition and Dietetics

This emphasis provides basic preparation for fulfillment of the baccalaureate requirements for careers in community nutrition programs, dietetics, or for graduate studies in these areas.

Completion of this emphasis satisfies the academic requirements of the Didactic Program in Dietetics (DPD) of the American Dietetic Association (ADA), Academy of Nutrition and Dietetics (the Academy). The program is accredited by the Accreditation Council for Education of Nutrition and Dietetics (ACEND). Students seeking verification of DPD completion must maintain a grade point average (GPA) of at least 3.00 in DPD program courses (see adviser). In addition these students must achieve a grade of B or better in both of the following DPD courses: FCNS 310 and FCNS 415. Students are also strongly recommended to acquire work experience in patient care and food service.

To become a registered dietitian (R.D.), a student with DPD verification of academic requirements must complete an ACEND ADA accredited supervised practice experience and pass the national registry examination.

**Postbaccalaureate students**

Postbaccalaureate students without degrees from an ACEND ADA accredited nutrition degree program who request DPD verification by NIU must consult with the DPD director prior to NIU enrollment to
determine required course work. Additional course work may be required to earn a second baccalaureate degree. Students should consult with an academic adviser.

Other Catalog Change  Page 161, 2012-13 Undergraduate Catalog

**Emphasis 2. Nutrition and Dietetics**

↓

**Requirements outside School (43-45)**

*BIOS 104 - General Biology (4)

*BIOS 103 - General Biology (3)

BIOS 105 – General Biology Laboratory (1)

BIOS 213 - Introductory Bacteriology (3),

OR BIOS 313 - Microbiology (4)

↓

Other Catalog Change  Page 162-163, 2012-13 Undergraduate Catalog

**Teacher Certification Family and Consumer Sciences**

↓

**Requirements outside School (25-29 31-34)**

*BIOS 103 - General Biology (3),

OR *BIOS 101 - General Biology (4),

OR *BIOS 106 - Environmental Biology (3),

OR *BIOS 109 - Human Biology (3)

*CHEM 110 - Chemistry (3)

*CHEM 111 - Chemistry Laboratory (1),

EPFE 400 - Foundations of Education (3)

EPS 406 - Issues in Human Development and Learning in the Middle School and High School Years (3)

ETR 440 - Secondary Classroom Assessment (3)

ETT 229 - Computers in Education (3),

OR pass ETT Competency Exam proficiency exam

ETT 402 - Teaching and Learning with Technology (3)

LTIC 301 - Teaching with a Multicultural Perspective (3)

LTRE 310 - Teaching Reading in the Secondary School (3)

PSYC 102 - Introduction to Psychology (3)

TLSE 457 - Systems for Integrating the Exceptional Student in the Regular Classroom (3)

Additional course work required for certification depends on major selected.

Other Catalog Change  Page 163, 2012-13 Undergraduate Catalog

**Interdisciplinary Major in Early Childhood Studies (B.S.)**

↓

**Emphasis in 04 Certification**
SECTION A – Recorded for inclusion in the Undergraduate Catalog  p. 31 of 74

† Requirements outside School (9-10)
* BIOS 103 - General Biology (3),
  OR * BIOS 104 - General Biology (4),
  OR * BIOS 109 - Human Biology (3)
† Total hours for Emphasis in 04 Certification: 92-97 96

Other Catalog Change  Page 164, 2012-13 Undergraduate Catalog

Minors
† General Minor (18-19)
* BIOS 103 - General Biology (3),
  OR * BIOS 104 - General Biology (4),
  OR * BIOS 109 - Human Biology (3)
† Minor in Nutrition, Dietetics, and Hospitality Administration (21-24 23)
* BIOS 103 - General Biology (3),
  OR * BIOS 104 - General Biology (4),
  OR * BIOS 109 - Human Biology (3),

School of Nursing and Health Studies

Limited Admissions and Limited Retention

Other Catalog Change  Page 27, 2012-13 Undergraduate Catalog

Nursing Major
† Transfer Students
† Prerequisite Courses Used in Evaluating Applicants
* BIOS 104 - General Biology (4),
  OR * BIOS 103, General Biology (3) and * BIOS 105, General Biology Laboratory (1)

School of Nursing and Health Studies

Course Deletions  Page 178-181, 2012-13 Undergraduate Catalog
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 300</td>
<td>PROFESSIONAL NURSING (2)</td>
</tr>
<tr>
<td>NURS 301</td>
<td>RESEARCH IN NURSING (3)</td>
</tr>
<tr>
<td>NURS 306</td>
<td>HEALTH ASSESSMENT (2)</td>
</tr>
<tr>
<td>NURS 306A</td>
<td>HEALTH ASSESSMENT LEARNING LABORATORY (1)</td>
</tr>
<tr>
<td>NURS 309</td>
<td>ALTERATIONS IN BIOLOGICAL SYSTEMS (3)</td>
</tr>
<tr>
<td>NURS 310</td>
<td>FUNDAMENTAL NURSING (2)</td>
</tr>
<tr>
<td>NURS 310A</td>
<td>CLINICAL DEVELOPMENT I (2)</td>
</tr>
<tr>
<td>NURS 311</td>
<td>MENTAL HEALTH NURSING (3)</td>
</tr>
<tr>
<td>NURS 316</td>
<td>ADULT HEALTH NURSING I (3)</td>
</tr>
<tr>
<td>NURS 317</td>
<td>ADULT HEALTH NURSING II (3)</td>
</tr>
<tr>
<td>NURS 320</td>
<td>CLINICAL DEVELOPMENT II (2)</td>
</tr>
<tr>
<td>NURS 321</td>
<td>PARENT-CHILD HEALTH NURSING (3)</td>
</tr>
<tr>
<td>NURS 322</td>
<td>CHILD HEALTH NURSING (3)</td>
</tr>
<tr>
<td>NURS 330</td>
<td>CLINICAL DEVELOPMENT III (2)</td>
</tr>
<tr>
<td>NURS 340</td>
<td>CLINICAL DEVELOPMENT IV (2)</td>
</tr>
<tr>
<td>NURS 346</td>
<td>CONCEPTS, ISSUES, AND INTERPERSONAL STRATEGIES IN PROFESSIONAL NURSING (3)</td>
</tr>
<tr>
<td>NURS 360</td>
<td>CLINICAL DEVELOPMENT V (2)</td>
</tr>
<tr>
<td>NURS 380</td>
<td>NURSING CARE OF WOMEN (3)</td>
</tr>
<tr>
<td>NURS 400</td>
<td>CARE OF INDIVIDUALS WITH ACUTE ILLNESSES (2)</td>
</tr>
<tr>
<td>NURS 401</td>
<td>PROCESSES FOR NURSING LEADERSHIP (2)</td>
</tr>
<tr>
<td>NURS 410</td>
<td>CLINICAL DEVELOPMENT VI (2)</td>
</tr>
<tr>
<td>NURS 420</td>
<td>CLINICAL DEVELOPMENT VII (2)</td>
</tr>
<tr>
<td>NURS 424</td>
<td>COMMUNITY HEALTH NURSING (3)</td>
</tr>
<tr>
<td>NURS 429</td>
<td>SEMINAR IN PROFESSIONAL NURSING (3)</td>
</tr>
<tr>
<td>NURS 430</td>
<td>CLINICAL DEVELOPMENT VIII (4)</td>
</tr>
<tr>
<td>NURS 436</td>
<td>PHARMACOLOGY (3)</td>
</tr>
<tr>
<td>NURS 460</td>
<td>CLINICAL DEVELOPMENT: LEADERSHIP/MANAGEMENT IN AGGREGATE-FOCUSED NURSING CARE (4)</td>
</tr>
<tr>
<td>NURS 470</td>
<td>SEMINAR IN NURSING SPECIALTIES (1-3)</td>
</tr>
<tr>
<td>NURS 487</td>
<td>NURSING ETHICS, AND THE LAW (3)</td>
</tr>
<tr>
<td>NURS 495</td>
<td>NURSING IN INTERNATIONAL HEALTH SYSTEMS (3)</td>
</tr>
</tbody>
</table>

**Course Revisions:**

- NURS 302: PROFESSIONAL NURSING (2) Overview of systems ... member of a profession. Not open to students with R.N. status. PRQ: PSYC 102. CRQ: ENGL 104 or ENGL 105.

- NURS 347: CONCEPTS, ISSUES AND INTERPERSONAL STRATEGIES IN PROFESSIONAL NURSING (4). ... ...

- NURS 349X: CRITICAL THINKING FOR HEALTH AND HUMAN SERVICES PROFESSIONALS (3). Crosslisted as UHHS 350. Development of critical thinking skills as applied to health and human
services professionals. CRQ: NURS 305 or R.N. status.

NURS 463. PRACTICUM IN LEADERSHIP AND POPULATION-FOCUSED NURSING (4). Synthesis of the … community setting. PRQ: NURS 302 or NURS 347, and NURS 419 and NURS 432 and R.N. status.

NURS 488. NURSING ETHICS AND THE LAW (3). Critical appraisal of legal and ethical aspects of professional issues and problems in healthcare related to the nurse and society professional nursing practice. Integration of legal and ethical responsibilities of the nurse as provider of care, designer/manager/coordinator of care, and member of a profession. PRQ: R.N. status.

Other Catalog Change Page 173-174, 2012-13 Undergraduate Catalog

R.N.-B.S. in Nursing Completion Program
The R.N.-B.S. in nursing completion program is designed to award credit to registered nurses for their recent education and previous learning experiences in the field of nursing. Registered nurse degree-completion students must plan on a minimum of at least three semesters to complete the required nursing courses. See “Admission” for further information. Upon successful completion of the bridge course, NURS 302 or NURS 347, the R.N. student will receive 32 semester hours of credit for NURS 303, …

↓ Examinations for Medical-Surgical Nursing, Psychiatric Mental Health Nursing, and Pediatric and Obstetrical Nursing. In order to receive a baccalaureate degree, the R.N.-B.S. completion student is required to complete the following courses with a grade of C or better: NURS 302 or NURS 347; NURS 304, NURS 307, NURS 308, NURS 312, NURS 347, NURS 349X or UHHS 350; NURS 408, NURS 419, NURS 425, NURS 432, NURS 435, NURS 443 and NURS 453, or NURS 463, and NURS 488.

Other Catalog Change Page 174-175, 2012-13 Undergraduate Catalog

Major in Nursing (B.S.)

Requirements in School (63-66 61-65)
NURS 302 - Professional Nursing (2),
OR NURS 347 - Concepts, Issues and Interpersonal Strategies in Professional Nursing (2)
↓
NURS 443 - Population-Focused Nursing Clinical (2) and NURS 453 Capstone Clinical (4),
OR NURS 463- Practicum in Leadership and Population-Focused Nursing (4)

↓ Total Hours for a Major in Nursing: 94-99 92-98

Other Catalog Change Page 175, 2012-13 Undergraduate Catalog
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Major in Nursing (B.S.)
Requirements outside School (31-33)
*BIOS 104 - General Biology (4), BIOS 103, General Biology (3) and BIOS 105, General Biology Laboratory (1)

Other Catalog Change

Page 175, 2012-13 Undergraduate Catalog

Major in Public Health (B.S.)
Requirements outside School (29-33)
AHCD 318 - Medical Terminology (3)
*BIOS 104 - General Biology (4)
OR BIOS 208 - Fundamentals of Biology I (3) and BIOS 210 - Fundamentals of Biology I Laboratory (1)

Other Catalog Change

Page 175, 2012-13 Undergraduate Catalog

Major in Public Health (B.S.)
Emphasis 1. General Public Health
Requirements outside School (15-33)
One of the following designations (12-30)
A minor offered by the School of Family, Consumer, and Nutrition Sciences, or a minor in biological sciences, chemistry, communication studies, communicative disorders, gerontology, environmental management systems, environmental studies, military science, community leadership and civic engagement, Spanish, or psychology.
OR Qualified for the public health degree completion program.

Emphasis 4. Health Promotion
Requirements outside School (45-16) (12)
COMS 200 - Public Speaking (3),
OR COMS 304 - Introduction to Persuasion Theory (42, 3)
*FCNS 201 - Human Nutrition (3)
*FCNS 280 - Human Development, the Family, and Society (3),
OR *PSYC 225 - Lifespan Development: Childhood through Adulthood (3)
SOCI 356 - Health, Aging, and Society (3),
OR SICI 451 - Medical Sociology (3),
OR SICI 482 - Sociology of Death and Dying (3),
OR *FCNS 280 - Human Development, the Family, and Society (3).
SECTION A – Recorded for inclusion in the Undergraduate Catalog

OR IDSP 465 - Issues in Gerontology (3)
OR *PSYC 225 - Lifespan Development: Childhood through Adulthood (3)

Total Hours for Emphasis 4, Health Promotion: 87-96

Other Catalog Change

Major in Public Health (B.S.)

Emphasis 3. Environment and Health

Requirements outside School (27-31)

Course work from the following. Cannot select courses previously taken to satisfy other major or emphasis requirements (6-8).

BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)
BIOS 208 – Fundamentals of Biology I (3), and BIOS 210 – Fundamentals of Biology I Laboratory (1)

Other Catalog Change

Major in Health Education (B.S.Ed.)

Requirements in School (40-42)

PHHE 406 - Sexuality Education (3)
PHHE 408 - Mental and Emotional Health (3)

At least two One of the following (6-8)

PHHE 306 – Human Sexuality (3)
PHHE 401 – Drug Education (3)
PHHE 406 – Sexuality Education (3)
PHHE 408 – Mental and Emotional Health (3)
PHHE 410 – Death Education (3)

PHHE 472 - Current Issues: Health Education (4-3)

Other Catalog Change

Minor in Health Education (29-31)


SECTION A – Recorded for inclusion in the Undergraduate Catalog

PHHE 404 - Drug Education (3)
PHHE 406 - Sexuality Education (3)

PHHE 408 - Mental and Emotional Health (3)

↓

Two of the following

↓

PHHE 404 - Drug Education (3)
PHHE 406 - Sexuality Education (3)
PHHE 408 - Mental and Emotional Health (3)

PHHE 410 – Death Education (3)

↓

PHHE 472 - Current Issues: Health Education (4-3)

COLLEGE OF LIBERAL ARTS AND SCIENCES

Other Catalog Changes

Page 185, 2012-13 Undergraduate Catalog

College Requirement for the B.S. Degree

↓

3. *MATH 206 or *MATH 210, *MATH 211, and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.

*BIOS 104 and BIOS 205 and BIOS 207, *BIOS 103 and *BIOS 105, BIOS 209 and BIOS 211, BIOS 213, OR BIOS 357

*CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

↓

4. *MATH 229 and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.

*BIOS 104 and BIOS 205 and BIOS 207, *BIOS 103 and *BIOS 105, BIOS 209 and BIOS 211, BIOS 213, OR BIOS 357

*CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

↓

5. *MATH 211, STAT 301, and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.

*BIOS 104 and BIOS 205 and BIOS 207, *BIOS 103 and *BIOS 105, BIOS 209 and BIOS 211, BIOS 213, OR BIOS 357

*CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

↓

Other Catalog Change

Page 188, 2012-13 Undergraduate Catalog

Minor in Environmental Studies (21-22)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Requirements (21-22)

ENVS 304 - Environmental Law, Policy, and Economics (3)

TECH 305/ENVS 305X - Green Technologies (3)

Select from one of the following natural sciences, engineering, and technology courses (3-4)

BIOS 106 - Environmental Biology (3)
BIOS 406 - Conservation Biology (4)
CHEM 110 - Chemistry (3)
CHEM 427 - Environmental Chemistry (3)
ENVS 315/GEOG 315X - Geography of Energy (3)
GEOG 253 - Environment and Society (3)
GEOG 303 - Water Resources and the Environment (3)
GEOG 455 - Land-Use Planning (3)
GEOL 105 - Environmental Geology (3)
GEOL 320 - Environments and Life Through Time (4)

OR GEOL 322 – Paleogeography, Paleoclimatology, Paleoecology (4)

GEOL 488 - Environmental Change (3)

MEE 101 - Energy and the Environment (3)
TECH 245 - Pollution, Pestilence, Prevention, and the Cost of Doing Business (3)

Select from one of the following humanities and social sciences courses (3)

ANTH 425 - Environment and Anthropology (3)
CLCE 310 – Civic Engagement (3)
ECON 386 - Environmental Economics (3)
HIST 377 - American Environmental History (3)
PHIL 335 - Environmental Ethics (3)
POLS 100 - American Government and Politics (3)
POLS 220 - Introduction to Public Policy (3)

Other Catalog Changes: Page 196, 2012-13 Undergraduate Catalog

Pre-pharmacy

Additional Courses for Two-Year Programs
Biology – 1 year (BIOS 209/BIOS 211; BIOS 355 or BIOS 357 and BIOS 358)

Other Catalog Changes: Page 195, 2012-13 Undergraduate Catalog

Pre-dentistry
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Biology – 1½ years, with laboratory (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211)

Pre-medicine and Pre-osteopathy

Biology – 2 years, with laboratory (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211, and BIOS 355)

Pre-optometry

Biology – 1½ years, with laboratory (BIOS 205/BIOS 207, BIOS 208/210, and BIOS 209/BIOS 211)

Pre-pharmacy

One-Year Program

Biology – 1 year, with laboratory (BIOS 205/BIOS 207)

Chemistry – 1 year, with laboratory (CHEM 210/CHEM 212 and CHEM 211/CHEM 213)

Pre-podiatry

Biology - 1½ years, with laboratory (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211)

Pre-veterinary Medicine

Biology – 2½ years, including zoology and genetics (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211, BIOS 308, and BIOS 355)

Department of Biological Sciences

All University Section

Illinois Articulation Initiative Core Curriculum

Other Catalog Change

Page 356, 2012-13 Undergraduate Catalog

Physical and Life Sciences

BIOS 101 - Plant Products and Human Affairs L1 901
BIOS 103 - General Biology L1 900
BIOS 104 - General Biology L1 900L
BIOS 105 - General Biology Laboratory L1 900L
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Department of Biological Sciences

Course Deletions

Page 205-206, 2012-13 Undergraduate Catalog

104. GENERAL BIOLOGY (4).

205. ORGANISMAL DIVERSITY (3).
207. ORGANISMAL DIVERSITY LABORATORY (1).
300. CELL BIOLOGY (4).

Course Deletion:

Page 207, 2012-13 Undergraduate Catalog

358. HUMAN ANATOMY LABORATORY (2).

New Courses

Page 206-207, 2012-13 Undergraduate Catalog

CIP Code: 26.01

302. MOLECULAR BIOLOGY (3). Fundamentals of molecular biology including the structure of DNA and RNA, mechanisms of DNA replication, transcription and translation, gene organization, genetic variation and repair, and regulation of gene expression. PRQ: BIOS 208, BIOS 209, BIOS 210, BIOS 211, CHEM 211, and CHEM 213.

303. CELL BIOLOGY (3). Cell structure and function including macromolecules, biochemistry, energy conversions, membranes, cellular organelles, cytoskeleton, signal transduction, and cell death. Not available for credit to students with previous credit in BIOS 300. PRQ: BIOS 208, BIOS 209, BIOS 210, BIOS 211, CHEM 211, and CHEM 213.

304. MOLECULAR CELL BIOLOGY LABORATORY (3). Laboratory course designed to give students experience in the broad range of modern experimental methods, procedures, and techniques required in the field. One hour of lecture and two 3-hour laboratory periods per week. PRQ or CRQ: BIOS 302 and BIOS 303.

410. FOOD AND INDUSTRIAL MICROBIOLOGY (3). Fundamental aspects of microorganisms (including viruses and prions) associated with foods and the food industry. Topics will include isolation and enumeration of microorganisms in food, microbial species that are important to the food industry, techniques for preventing and controlling microbial contamination of foods, and procedures for reducing health hazards associated with food contamination. PRQ: BIOS 313.

419. MICROBIAL SYSTEMATICS AND DIVERSITY (3). Understanding the metabolic diversity of...
bacteria and archaea through selective culturing, isolation, and determinative testing. Through a weekly lecture and two three-hour laboratory sessions, students will cultivate and characterize microbial species of importance to the environment, human health, and the food and biofuel/bioenergy industries. PRQ: BIOS 313.


Course Revisions: Page 205-209, 2012-13 Undergraduate Catalog

103. GENERAL BIOLOGY (3). Basic chemistry, Chemistry of living systems. Not open for credit for majors in biological sciences or to students with previous credit in BIOS 104 (or its equivalent).

105. GENERAL BIOLOGY LABORATORY. Laboratory component of BIOS 104. Designed for students who have had BIOS 103 or its equivalent and need BIOS 104. Optional laboratory designed to accompany BIOS 103. Not open for credit for majors in biological sciences or to students with previous credit in BIOS 104. PRQ: BIOS 103 and CHEM 110. CRQ: BIOS 103.

209. FUNDAMENTALS OF ORGANISMAL BIOLOGY (3). Introduction to higher ... PRQ: BIOS 208 and BIOS 210, or BIOS 103, BIOS 105, and BIOS 105. CRQ: BIOS 211.

213. INTRODUCTORY BACTERIOLOGY (3). Fundamental ... PRQ: Either BIOS 104, or BIOS 208 and BIOS 211, or CHEM 110 or CHEM 210 and either BIOS 103 and BIOS 210 or BIOS 105 and BIOS 208 and BIOS 210.

311. FUNCTIONAL HUMAN ANATOMY (4). ... Not available for credit for majors in biological sciences who have credit for BIOS 357, BIOS 358, or BIOS 446.

322X. POLITICS AND THE LIFE SCIENCES (3). Crosslisted as POLS 322. Analysis of the major social... Recommended: At least sophomore standing. BIOS 103, BIOS 106, BIOS 109, or BIOS 205 and BIOS 207.

355. HUMAN PHYSIOLOGY (4). Functions of ... CRQ: PHYS 211 or PHYS 273.

357. HUMAN ANATOMY AND PHYSIOLOGY (5). Functional and ... Students may not receive credit for both BIOS 357 and BIOS 358. PRQ: CHEM 110 or CHEM 210, and either BIOS 104, BIOS 103 and BIOS 105, or BIOS 208 and BIOS 210.
DIRECTED RESEARCH IN BIOLOGY (1-3).
A. Microbiology
B. Ecology and Evolution
C. Cell Biology
D. Plant Science
Directed research problems. Experimental laboratory and field research under the guidance ... ... and permission of department.

THIRD CLINICAL HIGH SCHOOL/MIDDLE SCHOOL EXPERIENCE IN BIOLOGY (2).
Discipline-based ... ... formally evaluated experiences. S/U grading. PRQ: ... ... BIOS 403.

MICROBIAL PHYSIOLOGY (3-4). Physical and chemical aspects of the functions of bacteria and other microorganisms. Two Three hours of lecture and two three hours of laboratory. PRQ: BIOS 300, BIOS 313, and CHEM 330 or CHEM 336. CRQ: CHEM 330 or CHEM 336.

PRINCIPLES OF VIROLOGY (3). Essential principles of viral ... ... PRQ: BIOS 300, BIOS 302, BIOS 303, BIOS 313, and CHEM 330 or CHEM 336.

RADIATION BIOLOGY (3). The effects ... ... PRQ: BIOS 300, BIOS 302, BIOS 303.

IMMUNOBIOLOGY (3). Biochemistry and interactions ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303, or BIOS 313, and CHEM 330 or CHEM 336.

BIOINFORMATICS (3). Introduction to theory ... ... PRQ: BIOS 300, BIOS 302 or BIOS 308.

CELL AND TISSUE CULTURE (3). Basic laboratory techniques ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303, and CHEM 330 or CHEM 336.

MOLECULAR BIOLOGY OF CANCER (3). Topics include carcinogenesis ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303.

DEVELOPMENTAL BIOLOGY (4). Mechanisms ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303, and CHEM 330 or CHEM 336.

PHARMACOLOGY AND TOXICOLOGY (3). Topics include ... ... PRQ: BIOS 300 and either CHEM 330 or CHEM 336. BIOS 303 and BIOS 355.

CELL SIGNALLING (3). Principles of chemical ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303, and CHEM 330 or CHEM 336.

CELLULAR PHYSIOLOGY (3). Principles underlying ... ... PRQ: BIOS 300, BIOS 302 and BIOS 303.
467. **ADVANCED MOLECULAR BIOLOGY OF EUKARYOTES** (3). Mechanisms of gene expression, and regulation of gene activity in eukaryotic and prokaryotic systems. PRQ: BIOS 300, BIOS 302, BIOS 303, BIOS 313 and either CHEM 330 or CHEM 336. CRQ: BIOS 473X.

478. **BIONSTRUMENTATION FOR CELL AND MOLECULAR BIOLOGY** (4). Classroom instruction … … PRQ: BIOS 300, BIOS 302 and BIOS 303 and PHYS 211.

479. **BIOTECHNOLOGY APPLICATIONS AND TECHNIQUES** (3). Detailed study … … PRQ: BIOS 300, BIOS 302 or BIOS 308.

482. **BIOLOGY OF FORENSIC ANALYSIS** (4). Topics include DNA … … PRQ: BIOS 300, BIOS 302.

486. **TRANSITION TO THE PROFESSIONAL BIOLOGY TEACHER** (2). Transitioning experience … … Such documentation will include, but not be limited to, the teacher performance assessment, the electronic portfolio, a professional … … CRQ: BIOS 485.

491. **RECOMBINANT DNA TECHNIQUES LABORATORY** (4). Advanced … … PRQ: BIOS 300, BIOS 302 and BIOS 308.

495H 495. **HONORS BIOLOGY DIRECTED RESEARCH** (1-6). Directed research, under the guidance of a faculty member, for students pursuing the B.S. degree with Honors in Biological Sciences. Experimental laboratory or field research under the guidance of a faculty member. Eligible students must be admitted into the Department of Biological Sciences Honors Program. May be repeated to maximum of 6 semester hours. PRQ: Permission of department. 1-3 semester hours of BIOS 370, and a GPA of at least 3.50 in departmental and extradepartmental courses taken as requirements for the major.

499H 499. **UNIVERSITY HONORS BIOLOGY** (1-6). Directed research, under the guidance of a faculty member. Designed for students pursuing University Honors but not Honors in Biological Sciences. Experimental laboratory or field research under the guidance of a faculty member. Eligible students must be admitted into the University Honors Program. May be repeated to a maximum of 6 credit hours. PRQ: 1-2 semester hours of BIOS 370 and approval of the department and the University Honors Program. Permission of the department.
SECTION A – Recorded for inclusion in the Undergraduate Catalog  

It is strongly recommended that students completing these emphases obtain a secondary endorsement in at least one subject other than biology.

Admission and Retention Requirements in the Discipline

Students interested in pursuing certification … … In addition, those seeking certification must complete the equivalent of the mathematics sequence MATH 211 and STAT 301, BIOS 300, BIOS 305, BIOS 313, BIOS 316, BIOS 317, BIOS 355, and BIOS 484, and BIOS 494, and a selection of elective biology courses … … departmental certification adviser.

All potential candidates must

take and pass the ICTS Biology Content Test prior to applying to student teaching.

take and pass the ICTS Assessment of Professional Teaching test before completion of the program.

Professional Development Phase and Student Teaching

Students must satisfactorily complete a series of discipline-based pedagogy course work.

BIOS 201X - The Professional Secondary Science Teacher (1)
BIOS 301X - The Interdisciplinary Secondary Science Teacher (1)
BIOS 402X – Interdisciplinary Teaching of Science in Secondary Education (3)
BIOS 486 – Transition to the professional Biology Teacher (2)
PHYS 494 - Use of Technology in Secondary Science Teaching (2)
ETT 402 - Teaching and Learning with Technology (3)

Additional Requirements

At this time, State requirements … … Illinois Certification Testing System, passage of the Assessment of Professional Teaching test and demonstration that … … meet certification requirements.

Degree with Biology Honors

The degree Bachelor of Science with Honors in Biological Sciences will be awarded to students satisfying the following requirements.

During the first semester of the junior year the student will confer with the Department of Biological Sciences honors advisor regarding his or her intent to pursue the department honors degree. With the
approval of the honors advisor and a departmental faculty member under whom the student will engage in independent study, the following are required in the sequence indicated.

Successful completion of 1-3 semester hours of BIOS 370, Directed Research in Biology, during the second semester of the junior year.

Recommendation of the honors advisor and the faculty research supervisor to continue toward the degree with honors. The student must maintain a GPA of at least 3.5 in all departmental and extradepartmental requirements.

Successful completion of 6 semester hours (taken over the two semesters of the senior year) of BIOS 495H, Honors Biology Directed Research, culminating in a satisfactory research paper.

1) Maintain a GPA of at least 3.5 in all departmental BIOS, CHEM, MATH, and PHYS course requirements;

2) Gain approval for admission into the program from the Department of Biological Sciences Honors Advisor, as well as the faculty member under whom the student will engage in research;

3) Complete BIOS 370, Directed Research in Biology and 6 semester hours of BIOS 495, Honors Biology Directed Research under the faculty member’s supervision;

4) Present and explain the results of the honors project at either the departmental or university undergraduate research symposium; and,

5) Submit an approved senior thesis to the departmental honors advisor.

Collectively, a maximum of 6 hours of credit (9 in the case of students admitted to the department honors program) in BIOS 370, BIOS 399H, BIOS 490, BIOS 495H, BIOS 495, and BIOS 499H may be applied to the major.

Department of Chemistry and Biochemistry

New Courses Page 214, 2012-13 Undergraduate Catalog

CIP Code: 40.05

333. GENERAL ORGANIC LABORATORY II (1). Continuation of CHEM 332. laboratory techniques. Not available for credit for emphasis 1 or emphasis 2 majors. One 3-hour period a week. CRQ: CHEM 331 or CHEM 337.

339. ORGANIC CHEMISTRY LABORATORY II (1). Continuation of CHEM 338. One 3-hour period
New Course: Page 214, 2012-13 Undergraduate Catalog

CIP Code: 40.05

401. THIRD CLINICAL HIGH SCHOOL/MIDDLE SCHOOL EXPERIENCE IN CHEMISTRY (2).
Discipline-based early clinical experience for students seeking teacher certification in chemistry and general science. Observations, evaluation, methods, and problems practicum in subject discipline teaching. Includes a minimum of 40 clock hours of supervised and formally evaluated experiences. PRQ: Consent of department. CRQ: CHEM 495X.

Course Revisions: Page 214-215, 2012-13 Undergraduate Catalog

210. GENERAL CHEMISTRY I (3). Fundamental laws … …. Three hours of lectures and … …. Not available for credit to students with credit in CHEM 210. CRQ: CHEM 212.

GEC 11/15/12

211. GENERAL CHEMISTRY II (3). Continuation of CHEM 210 … …. Three hours of lectures and one recitation per week. Not available for credit to students with credit in CHEM 211. PRQ: CHEM 210 and CHEM 212. CRQ: CHEM 213.

GEC 11/15/12

212. GENERAL CHEMISTRY LABORATORY I (1). Designed to accompany CHEM 210. One 3-hour period per week. Not available for credit to students with credit in CHEM 210. CRQ: CHEM 210.

GEC 11/15/12

213. GENERAL CHEMISTRY LABORATORY II (1). Designed to accompany CHEM 211. One 3-hour period per week. Not available for credit to students with credit in CHEM 211. CRQ: CHEM 211.

GEC 11/15/12

330. GENERAL ORGANIC CHEMISTRY I (3). First semester of a two-semester course … …. Three hours of lectures a week. PRQ: CHEM 211 and CHEM 213.

331. GENERAL ORGANIC CHEMISTRY II (3). Second semester of … …. Three hours of lectures a week. PRQ: CHEM 330.

332. GENERAL ORGANIC LABORATORY I (2). One-semester course in basic organic laboratory techniques, including compound synthesis and analysis of products. Not available for credit for emphasis 1
or emphasis majors. 3-hour periods a week. CRQ: CHEM 330 or CHEM 336.

336. ORGANIC CHEMISTRY I (3). Modern structural … … of department. Three hours of lecture a week. PRQ: CHEM 211 and CHEM 213.

337. ORGANIC CHEMISTRY II (3). Continuation of CHEM 336. Chemistry majors only or consent of department. Three hours of lecture a week. PRQ: CHEM 336.

338. ORGANIC CHEMISTRY LABORATORY I (2). Introduction to modern laboratory techniques in organic chemistry including compound synthesis and analysis of products, for students interested in careers in professional chemistry and biochemistry. One 3-hour period a week. Not available for credit for those having credit for CHEM 332. CRQ: CHEM 330 or CHEM 336.

340. ADVANCED ORGANIC CHEMISTRY LABORATORY II (2). Continuation of CHEM 338 Lab activities involving multi-step synthetic reactions, advanced laboratory techniques, and use of spectroscopic methods to identify products from organic reactions. Two 3-hour periods a week. PRQ: CHEM 338 or consent of department.

496. TRANSITION TO THE PROFESSIONAL CHEMISTRY TEACHER (1). A transitioning experience … … be limited to, the teacher performance assessment, the electronic portfolio, a professional development plan, and a resume. CRQ: CHEM 497 or consent of department.

497. STUDENT TEACHING (SECONDARY) IN CHEMISTRY/PHYSICAL SCIENCES (2-10). Student teaching … … PRQ: CHEM 495X and consent of the department.

Other Catalog Change: Page 211, 2012-13 Undergraduate Catalog

Major in Chemistry (B.S.)

Emphasis I. Chemistry

Requirements in Department (43-44)

CHEM 336 – Organic Chemistry I (3)
AND CHEM 337 – Organic Chemistry II (3)
AND CHEM 338 – Organic Chemistry Laboratory I (1)
CHEM 338 – Organic Chemistry Laboratory I (1)
CHEM 337 – Organic Chemistry II (3)
AND CHEM 339 – Organic Chemistry Laboratory II (1)

Electives chosen with the advice of the chemistry faculty from CHEM 330, 340 and 400 level classes excluding classes… …or physics (3-4)


Major in Chemistry (B.S.)

Emphasis 2. Secondary Teaching

Recommendations
BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)
BIOS 208 - Fundamentals of Biology I (3), and BIOS 210 - Fundamentals of Biology I Laboratory (1)

Emphasis 3. Environmental Science Teaching

In addition, students seeking environmental science teaching certification are also required to take
BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)
BIOS 208 - Fundamentals of Biology I (3), and BIOS 210 - Fundamentals of Biology I Laboratory (1)

Emphasis 4. Chemistry for Pre-Professional Students

Requirements outside Department (40)

BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)
BIOS 208 and BIOS 209 - Fundamentals of Biology I and II (6),
and BIOS 210 and BIOS 211 - Fundamentals of Biology I and II

Other Catalog Changes: Page 212, 2012-13 Undergraduate Catalog

Emphasis 2. Secondary Teaching

Students seeking certification … … university for graduation. In addition to the program of courses
outlined below, the state provides alternative pathways to teacher certification. Contact the discipline
coordinator for more information about these programs.

Requirements in Department (51-62)
CHEM 201X – The Professional Secondary Science Teacher (1)
CHEM 210 – General Chemistry I (3)
AND CHEM 213 – General Chemistry Laboratory II (1)
CHEM 301X – The Interdisciplinary Secondary Science Teacher (1)
CHEM 325 - Analytical Chemistry I (3)
CHEM 332 – General Organic Laboratory (2)
CHEM 336 – Organic Chemistry I (3)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

AND CHEM 337 – Organic Chemistry II (3)
AND CHEM 332 – General Organic Chemistry Laboratory I (1)
CHEM 337 – Organic Chemistry II (3)
AND CHEM 333 – General Organic Chemistry Laboratory II (1)
CHEM 401X - Third Clinical High School/Middle School Experience in Chemistry (2)
(must be taken concurrently with CHEM 495X)

↓
CHEM 494 - Use of Technology in Curriculum Development and Chemistry Teaching (3)
CHEM 495X - Teaching of Physical Sciences (3)
↓

Requirements outside Department

ETT 402 - Teaching and Learning with Technology (3)
ENGL 250 – Practical Writing (3)
EPS 406 - Issues in Human Development and Learning in the Middle School and High School Years (3)
ETT 402 - Teaching and Learning with Technology (3)
ILAS 201 - Introductory Clinical Experience (1)
(must be taken concurrently with CHEM 201X)
ILAS 301 - Second Clinical Experience (2)
(must be taken concurrently with CHEM 301X)
Students must take 1 credit hour in this course
ILAS 401 – Third Clinical Experience (1-2)
(must be taken concurrently with CHEM 405X)
*MATH 229 - Calculus I (4)
AND MATH 230 - Calculus II (4)
*PHYS 210 - General Physics I (4)
*AND PHYS 211 - General Physics II (4)
TLSE 457 - Systems for Integrating the Exceptional Student in the Regular Classroom (3)

Other State Requirements

Other state requirements include educational psychology (including human growth and development),
history and/or philosophy of education, and the psychology of exceptional children. Students should consult with
the discipline coordinator in the Department of Chemistry and Biochemistry to determine
which courses are approved for satisfying these requirements.

See “Teacher Certification Requirements” for additional information and requirements.

Recommendations
BIOS 205 - Organismal Diversity (3)
AND BIOS 207 – Organismal Diversity Laboratory (1)
↓
BIOS 209-Fundamentals of Biology II (3)
BIOS 211-Fundamentals of Biology II Lab (1)
CSCI 240 - Computer Programming in C++ (4)
Emphasis 4. Chemistry for Pre-Professional Students

Requirements in Department (32-33)

CHEM 210 – General Chemistry I (3) and CHEM 212 – General Chemistry Laboratory I (1)

CHEM 330 – General Organic Chemistry I (3)
AND CHEM 331 – General Organic Chemistry II (3)
AND CHEM 332 – General Organic Laboratory (2)
OR CHEM 336 – Organic Chemistry I (3)
AND CHEM 337 – Organic Chemistry II (3)
AND CHEM 338 – Organic Chemistry Laboratory I (2)

CHEM 336 – Organic Chemistry I (3), and

CHEM 337 – Organic Chemistry II (3)
AND CHEM 338 – Organic Chemistry Laboratory I (1)

CHEM 339 – Organic Chemistry Laboratory II (1)
AND CHEM 333 – General Organic Chemistry Laboratory II (1)

CHEM 339 – General Biological… and CHEM 340 and 400-level… to 497 (6-7)
OR CHEM 472 and CHEM 473 – Biological Chemistry I and II (6) and one elective chosen from
CHEM 339, 340 and 400-level… to 497 (3-4)

Emphasis 5. Biochemistry

Requirements in Department (42)

CHEM 336 – Organic Chemistry I (3)
AND CHEM 337 – Organic Chemistry II (3)
AND CHEM 338 – Organic Chemistry Laboratory I (1)
CHEM 333 – Organic Chemistry Laboratory II (1)
CHEM 337 – Organic Chemistry II (3)
AND CHEM 339 – Organic Chemistry Laboratory II (1)

Other Catalog Changes: Page 212, 2012-13 Undergraduate Catalog
Teacher Certification

Students interested in emphasis 2 and 3 must declare their interest in teacher certification with the discipline coordinator in the Department of Chemistry and Biochemistry at their earliest opportunity, should consult with the departmental certification advisor as soon as possible and also refer to the "Teacher Certification Requirements" section of this catalog.

Undergraduate chemistry majors may apply for admission to teacher certification in emphasis 3 at the end of the sophomore year.

Please note: Graduate students and students who already possess the baccalaureate or higher degree and wish to pursue certification and/or endorsement with or without becoming a candidate for a degree, should apply for admission to the coordinator of chemistry education as early as possible.

Students completing these emphases must also obtain a secondary endorsement in at least one subject other than chemistry. It is strongly recommended that students completing this emphasis obtain a secondary endorsement in at least one subject other than chemistry. Graduate students seeking an endorsement in chemistry who already have a Standard High School Certificate (6-12) in the state of Illinois must complete 24 semester hours in the physical sciences with at least 10 semester hours in chemistry including 4 semester hours in laboratory work. Postbaccalaureate students who wish to pursue certification without becoming a candidate for a degree should consult with the discipline coordinator in the Department of Chemistry and Biochemistry as early as possible.

Admission Requirements

To be admitted to the certification program, students in emphasis 2 and 3 must have
- completed at least 20 clock hours of approved early clinical experiences, and
- submitted an application and obtained approval from the discipline coordinator in the Department of Chemistry and Biochemistry, and
- passed the ICTS Test of Academic Proficiency.

Retention Requirements

Students admitted to the certification program must

- Students pursuing a degree in secondary science teacher certification must have a grade of C or better in all course work specifically required for certification. Higher number courses may be substituted if approved by the department.
- Complete a satisfactory … … Chemistry and Biochemistry; and,
prior to student teaching (for emphasis 3, general science teaching), complete 8 semester hours of biological sciences, including at least 3 semester hours in courses numbered 200 and above; take and pass the ICTS Chemistry Content Test prior to applying to student teaching; and, take and pass the ICTS Assessment of Professional Teaching test before completion of the program.

General Requirements and Information

Current requirements include the possession of an appropriate baccalaureate degree from an accredited institution, a minimum of 32 hours in the field, pre-student teaching clinical experiences at the 6-12 level, or proof of teaching experience at the 6-12 level, student teaching or an approved teaching experience, passage of the basic skills and secondary certificate subject matter examinations of the Illinois Certification Testing System, and demonstration that the candidate has met science teaching standards. At this time, State requirements include the possession of an appropriate baccalaureate degree from an accredited institution, a minimum of 32 semester hours in the field, pre-student teaching, clinical experiences at the 6-12 level or proof of teaching experience at the 6-12 level, student teaching or an approved teaching experience, passage of the Test of Academic Proficiency and secondary certification subject matter examinations of the Illinois Certification Testing System, passage of the Assessment of Professional Teaching test, and demonstration that the candidate has met teaching standards for the chemistry or environmental science teacher.

Degree with Honors

The B.S. degree with honors in chemistry will be awarded to students who have a minimum 3.20 overall GPA and a 3.50 GPA in all requirements, both in and outside the departments and who complete 13 semester hours of honors chemistry courses numbered CHEM 325 and above (not including CHEM 370), including CHEM 499 (2-4), and present a satisfactory senior thesis. The honors chemistry course work must include CHEM 499 (2-4 credits) and the presentation of a capstone thesis.

Department of Communication

Major in Journalism (B.A. or B.S.)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Required courses (6)

| JOUR 480 - Journalism Law and Regulation (3) |
| OR COMS 455 - Media Law and Regulation-Ethics (3) |

Editing and Management: Choose 2 of the following (6):

| JOUR 356 - Electronic News Gathering and Editing (3) |
| JOUR 364 - Television News Producing and Directing (3) |

Minor in Journalism (18-21)

| JOUR 200A - Basic News Writing Credits: 3 |
| OR JOUR 200B - Basic News Writing Credits: 3 |
| JOUR 480 - Journalism Law and Regulation Credits: 3 |

One of the Following (3)

| JOUR 302 - News Reporting Credits: 3 |
| JOUR 315 - Press Photography Credits: 3 |
| JOUR 335 - Principles of Public Relations Credits: 3 |
| JOUR 354 - Fundamentals of Broadcast News Credits: 3 |

One of the Following (3)

| JOUR 401 - Editorial and Opinion Writing Credits: 3 |
| JOUR 402 - Advanced Reporting Credits: 3 |
| JOUR 415 - Advanced Photojournalism Credits: 3 |
| JOUR 435 - Advanced Public Relations Credits: 3 |

One of the Following (3)

| JOUR 410 - News Editing Credits: 3 |
| JOUR 416 - Photograph Editing Credits: 3 |
| JOUR 461 - Specialized News Editing Credits: 3 |

Required courses (6)

| JOUR 200A - Basic News Writing (3) |
SECTION A – Recorded for inclusion in the Undergraduate Catalog

| OR JOUR 200B - Basic News Writing (3) |
| JOUR 480 - Journalism Law and Regulation (3) |
| OR COMS 455 – Media Law and Regulation Ethics |
| News Writing: Choose one of the following (3): |
| JOUR 301 - Article Writing (3) |
| JOUR 302 - News Reporting (3) |
| JOUR 355 - Television Newswriting and Reporting (3) |
| JOUR 360 - Public Relations Writing (3) |
| JOUR 401 - Editorial and Opinion Writing (3) |
| JOUR 485A - Topics in Journalism Writing (3) |
| Constructing Media Narratives: Choose one of the following (3): |
| JOUR 315 - Press Photography (3) |
| JOUR 354 - Fundamentals of Broadcast News (3) |
| JOUR 357 - Advanced Practices in Television News (3) |
| JOUR 402 - Advanced Reporting (3) |
| JOUR 415 - Advanced Photojournalism (3) |
| JOUR 435 - Advanced Public Relations (3) |
| JOUR 460 - Specialized Press Writing (3) |
| Editing and Management: Choose one of the following (3): |
| JOUR 210 - Information Gathering in the Digital Age (3) |
| JOUR 312 - Graphics of Communications (3) |
| JOUR 356 - Electronic News Gathering and Editing (3) |
| JOUR 364 - Television News Producing and Directing (3) |
| JOUR 410 - News Editing (3) |
| JOUR 461 - Specialized Press Editing (3) |
| News in Society: Choose One of the following (3): |
| JOUR 201 - Issues in Journalism (3) |
| JOUR 295 - Reading News Critically (3) |
| JOUR 335 - Principles of Public Relations (3) |
| JOUR 350 - Environment, Health, and the Media (3) |
| JOUR 407 - Media Convergence (3) |
| JOUR 436 - Public Relations Problems (3) |
| JOUR 449 - Media Management (3) |
| JOUR 481 - History of Journalism (3) |
| JOUR 482 - International News Communications (3) |
| JOUR 483 - Mass Media in Modern Society (3) |
| JOUR 485B - Topics in Journalism and Society (3) |
| JOUR 486 - Journalism Ethics (3) |
| JOUR 487 - News and Entertainment (3) |
JOUR 490 - Ethnic Minorities and the News Media (3)
Elective from JOUR courses listed above (3)

Section A – Recorded for inclusion in the Undergraduate Catalog

JOUR 490 - Ethnic Minorities and the News Media (3)
Elective from JOUR courses listed above (3)

Department of Computer Science

Course Revision: Page 226, 2012-13 Undergraduate Catalog

330. THE UNIX SYSTEM AND NETWORK PROGRAMMING (4). In-depth laboratory course in the UNIX operating system. Applications to a wide variety of problems in computer science. UNIX system usage and commands. Shell script programming. Network programming concepts and protocols. System call level and basic network programming in C++. Extensive laboratory work. PRQ: CSCI 230, CSCI 240, or CSCI 250.

Course Revision: Page 227, 2012-13 Undergraduate Catalog

463. COMPUTER ARCHITECTURE AND SYSTEMS ORGANIZATION (4). Organization and use of computer… ...PRQ: CSCI 360 or consent of department.

Other Catalog Change: Page 225, 2012-13 Undergraduate Catalog

Major in Computer Science (B.S.)

Emphasis 1. Software Development
Requirements in Department (45-46)
CSCI 330 – The UNIX System and the Network Programming (4)
CSCI 463 – Computer Architecture and Systems Organization (4)
Emphasis 2. Enterprise Software
Requirements in Department (45-46)

**CSCI 330 – The UNIX System and the Network Programming (4)**

**CSCI 463 – Computer Architecture and Systems Organization (4)**

Requirements outside Department (18-27)

**ACCY 288 - Fundamentals of Accounting (3),**
**OR ACCY 206 - Introductory Financial Accounting (3) AND ACCY 207 - Introductory Cost Management (3)**

**MATH 206 - Introductory Discrete Mathematics (3)**

Three of the following (9-12)

**ACCY 288 - Fundamentals of Accounting (3),**
**OR ACCY 206 - Introductory Financial Accounting (3),**
**AND ACCY 207 - Introductory Cost Management (3)**

Two of the following (6)

**FINA 320 - Principles of Finance (3)**

**MGMT 320 - Foundations of Business and Entrepreneurship (3)**

**MGMT 327 - Creativity, Innovation, & Entrepreneurship (3)**

**MGMT 333 - Principles of Management (3)**

Emphasis 3. Computational Software
Requirements in Department (45-47)

**CSCI 330 – The UNIX System and the Network Programming (4)**

**CSCI 463 – Computer Architecture and Systems Organization (4)**

Other Catalog Change: Page 226, 2012-13 Undergraduate Catalog

Minor in Computer Science (21-24)

One of the following courses:

**CSCI 330 – The UNIX System and the Network Programming (4)**

Department of English

Course Revisions Page 235-236, 2012-13 Undergraduate Catalog
Writing Courses

300. ADVANCED ESSAY COMPOSITION (3).
A. General. Writing expressive, persuasive, and informative essays and developing appropriate stylistic and organizational techniques. Open to majors, minors, and non-majors.
B. Pre-Law. Designed to meet the special writing needs of the pre-law student.
C. English Teacher Certification: Designed to meet the special writing needs of students seeking certification to teach in the secondary schools.

Teacher Certification Courses

479. THE TEACHING OF LITERATURE (3). PRQ: ENGL 200, 404, 9 semester hours of literature at the 300 and 400 level, and ENGL 404, or consent of department. CRQ: ILAS 301.

Major in English (B.A.)

Admission Requirements

Completion of at least 9 semester hours of English beyond ENGL 105 at NIU, including ENGL 200, and ENGL 207, and ENGL 300C, with a GPA of at least 3.00 including a minimum grade of B in English 300C and a minimum grade of C in all other NIU English classes used in the calculation of the ENGL GPA. Students may be exempted from ENGL 207 by passing the Grammar Exemption Examination. Teacher-certification students are required to get a minimum score of 70% on the examination. Students must obtain a grade of B or better in 300C.

Additional Requirements

All course work for Track 2: English Studies with Teacher Certification must be passed with a grade of C or better.

Environmental Studies

Major in Environmental Studies (B.A. or B.S.)

Emphasis 1. Biodiversity and Environmental Restoration (34-41)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Select two of the following methods-based courses (6-8)
- CHEM 427 – Environmental Chemistry (3)
- ENVS 409/BIOS 409X/GEOL 409X – Water Quality (4)

↓ Emphasis 2. Energy Studies (33)
↓ Requirements outside Environmental Studies (9)
- GEOG 315X/ENVS 315X – Geography of Energy (3)
- GEOG 453 – Environmental Management (3)

↓ Select three of the following applications and natural science-based courses (9)
- BIOS 106 – Environmental Biology (3)
- CHEM 427 – Environmental Chemistry (3)

↓ Select one of the following law/policy courses (3)
- GEOG 453 – Environmental Management (3)
- POLS 220 – Introduction to Public Policy (3)

↓ Emphasis 3. Human Experience (33-34)
↓ Requirements outside Environmental Studies (15)
↓ Select one of the following policy courses (3)
- GEOG 453 – Environmental Management (3)
- PHIL 361 – Social and Political Philosophy (3)

↓ Electives (15)
↓ Select at least two of the following social science courses (6)
- ANTH 301 – American Culture Credits: 3
- ANTH 343/ENVS 343X - Extinction: Where the Wild Things Were (3)

↓ ANTH 466 - Hunters-Gatherers and the Transition to Food Production (3)
- ANTH 467 - Applied Anthropology Credits: 3
- ANTH 491 – Current Topics in Anthropology (3)
- CLCE 429 – International NGOs and Globalization (3)
- ECON 386 – Environmental Economics (3)

↓ GEOG 303 – Water Resources and the Environment (3)
- GEOG 429 – Introduction to Geographic Information Systems (3)
- GEOG 430 – Population Geography (3)
- GEOG 453 – Environmental Management (3)
GEOG 455 – Land-Use Planning (3)

Emphasis 4. Environmental Policy (30-40)

Requirements outside Environmental Studies (9)
Select one of the following policy/social science courses (3)
- ANTH 425 – Environment and Anthropology (3)
- ANTH 432 – Nature and the Environment Across Cultures (3)
- CLCE 429/ANTH 429X – International NGOs and Globalization (3)
- POLS 324 – Environmental Law and Policy (3)

Electives (21-22)
Select at least two of the following policy courses (6-9)
- ECON 386 – Environmental Economics (3)
- GEOG 453 – Environmental Management (3)

Select at least one of the following science, engineering, and technology courses (3-4)
- CHEM 427 – Environmental Chemistry (3)
- GEOG 315/ENVS 315X – Geography of Energy (3)

Emphasis 5. Non-Government Organization (33-34)
Select three of the following foundations courses (9)
- ANTH 329 – Anthropology and Contemporary World Problems (3)
- CLCE 350 – Community Organization in the Digital World (3)
- CLCE 429 – International NGOs and Globalization (3)
- COMS 362 – Intercultural Communication (3)
- GEOG 453 – Environmental Management (3)

- PSPA 401 – Philanthropy and Volunteerism (3)
Select one of the following science, engineering, and technology courses (3-4)
- BIOS 106 – Environmental Biology (3)
- CHEM 427 – Environmental Chemistry (3)

GEOG 315/ENVS 315X – Geography of Energy (3)

Emphasis 6. Water (33-37)

Requirements outside Environmental Studies (9)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Select three of the following conceptually-based courses (9-11)

ANTH 343/ENVS 343X – Extinction: Where the Wild Things Were (3)
CHEM 427 – Environmental Chemistry (3)

Select three of the following methods-based courses (9-11)

GEOG 302 – Soil Science (4)
GEOG 359 – Introduction to GIS Geographic Information Systems (3)

Select one of the following engineering/technology-based courses (3)

GEOG 315X/ENVS 315X – Geography of Energy (3)

Select one of the following humanities and social sciences courses (3)

ANTH 425 – Environment and Anthropology (3)
CLCE 429 – International NGOs and Globalization (3)
ECON 386 – Environmental Economics (3)

Department of Foreign Languages and Literatures

Financial Aid and Scholarships

All University Section

Other Catalog Change: Page 61, 2012-13 Undergraduate Catalog

Department of Foreign Languages

Michael Morris Memorial Expendable Scholarship Fund
Interpro Translation Solutions FLRP Study Abroad Scholarship
Joseph Suhadolc Memorial Scholarship Fund

Department of Geography

Course Revisions: Page 259, 2012-13 Undergraduate Catalog

413. FOREST ECOLOGY AND MANAGEMENT (3). … …. PRQ: GEOG 322 or BIOS 103 or BIOS 104, or consent of department.

422. PLANT-SOIL INTERACTIONS (4). … …. PRQ: BIOS 103 or BIOS 104, and GEOG 302, or consent of department.
SECTION A – Recorded for inclusion in the Undergraduate Catalog

460. REMOTE SENSING OF THE ENVIRONMENT (3). Introduction … … change information through photogrammetry and image processing … … PRQ: MATH 210 or MATH 211 or MATH 229.

Department of Geology and Environmental Geosciences

New Course

415. IGNEOUS AND METAMORPHIC PETROLOGY (4). Introduction to origin and properties of magma, magmatic differentiation, geochemistry of igneous rocks, igneous textures and their origins, agents and types of metamorphism, metamorphic textures and their origins, metamorphic facies, metamorphic reactions and phase equilibria. PRQ: GEOL 325 or consent of department.

Course Revisions

468. GEOMICROBIOLOGY (3). PRQ: GEOL 120 or BIOS 205, or consent of department.

471. INTRODUCTION TO MICROPALAEONTOLOGY (3) … … PRQ: BIOS 205 and GEOL 322, or consent of department.

Department of History

New Course

304. LATE ANTIQUITY AND THE FALL OF ROME (3). History of the third to sixth centuries A.D., traditionally associated with the Fall of Rome throughout the Mediterranean basin. Transformation of vibrant classical and near eastern heritages of the late Roman Empire, first barbarian kingdoms, early Byzantine Empire, and early Islamic caliphate.

New Courses

385. HISTORY OF CHILDHOOD (3). Introduction to the history of children and youth; temporal and regional focus varies by instructor. Topics include: birth, growth, and maturation; family life; work; education; play; religion; gender and sexuality; race and ethnic identity.

389. GLOBAL CLIMATE HISTORY (3). Interaction of climate and humans from the deep past to the present. Topics include the influence of climatic patterns on early human populations, the Little Ice Age, the political and social ramifications of volcanic eruptions and El Niño events, and global warming.
Course Revision: Page 273, 2012-13 Undergraduate Catalog

408. MEDIEVAL EVERYDAY LIFE (3). Examination of economic and social changes during the Middle Ages underlying the formation of medieval civilization. Attention given to family life, demographic change, urbanization, and social movements.

Course Revision: Page 274, 2012-13 Undergraduate Catalog

467. THE U.S. IN DEPRESSION & WAR, 1929-1960 (3). The U.S. in during the Great Depression, World War II, and the Cold War. Topics include Franklin D. Roosevelt and the New Deal, the road to Pearl Harbor, total war, social and political change in mid-century America, and the Truman Doctrine and Stalinism, the Korean War, the Fifties, civil rights, the Eisenhower presidency, and the American response to revolutions in East Asia origins and meaning of the WWII and Cold War conflicts.

Major in History (B.A. or B.S.)

Group A: (… HIST 303, HIST 304, … HIST 490B)

Major in History (B.A. or B.S.)

Group B: (… HIST 388, HIST 389, … HIST 402, HIST 440, … …)

Group C: (… HIST 361, HIST 362, … HIST 372, HIST 373 … …)

Non-Governmental Organization Leadership and Development

Major in Community Leadership and Civic Engagement (B.A. or B.S.)

Requirements outside Department (B.A., 43-57; B.S., 50-57)

PSPA 401 301 – Philanthropy and Volunteerism (3)
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Certificate of Undergraduate Study
Civic Engagement (12)
↓
Course work from the following (3)
↓
PSPA 401 – Philanthropy and Volunteerism (3)

Department of Political Science

Course Deletion: Page 299, 2012-13 Undergraduate Catalog

Political Theory
353. COURTING, MARRYING, AND POLITICS (3).

New Courses Page 298, 2012-13 Undergraduate Catalog

CIP Code: 45.10

Public Law
210. INTRODUCTION TO LAW AND COURTS (3). Introduction to the study of law and courts, including legal theory, judicial institutions, legal actors, legal systems and ways in which law is interrelated with politics, public policy and society.

Political Theory

3532. DEMOCRATIC THEORY (3). Examination of both the abstract ideal of democracy and issues relating to its practical application within political societies. Contemporary democratic theory is studied in relation to the history of political thought with a view to assessing the desirability, fairness, and practicability of democracy as a form of government. Readings include Jean-Jacques Rousseau and Alexis de Tocqueville along with prominent contemporary scholars.

Other Catalog Change: Page 295-297, 2012-13 Undergraduate Catalog

Major in Political Science (B.A. or B.S.)
↓
Emphasis 1. Politics

Requirements in the Department (36)
↓
Two of the following (6)
POLS 210 – Introduction to Law and Courts (3)
SECTION A – Recorded for inclusion in the Undergraduate Catalog  p. 63 of 74

POL 220 – Introduction to Public Policy (3)

↓

Total Hours for Emphasis 1, Politics: 36–48 (B.A.) OR 46–51 (B.S)

Emphasis 2. Public Law

Requirements in the Department (36)

↓

Two of the following (6)

POL 210 – Introduction to Law and Courts (3)
POL 220 – Introduction to Public Policy (3)

↓

Emphasis 3. Public Administration and Service

Requirements in the Department (36)

↓

Two of the following (6)

POL 150 – Democracy in America (3)
POL 210 – Introduction to Law and Courts (3)
POL 220 – Introduction to Public Policy (3)

↓

Emphasis 4. International Politics

Requirements in the Department (36)

↓

Two of the following (6)

POL 210 – Introduction to Law and Courts (3)
POL 220 – Introduction to Public Policy (3)

↓

Two of the following (6)

POL 360 – Government and Politics in Western Europe (3)
POL 361 – British Government and Politics (3)
POL 363 – Dictators and Democracies (3)
POL 364 – Canadian Politics (3)
POL 365 – The Origins of Political Order (3)
POL 366 – Politics of Russia and Eurasia (3)

↓

POL 376 – Political Violence (3)
POL 377 – Revolt, Revolution and Genocide (3)
POL 378 – Political Islam (3)

↓

Public Administration
New Courses

PSPA 332. STRATEGIC PERFORMANCE MANAGEMENT OF PUBLIC SERVICE ORGANIZATIONS (3). An integrated approach to public service management theories and concepts, research, and modern practices related to strategic performance management and strategic planning in public service organizations for improved public performance, accountability and citizen participation.

Course Revisions

PSPA 401. PHILANTHROPY AND VOLUNTEERISM (3). … …

Department of Psychology

Course Revisions:

410. EXPERIMENTAL PSYCHOLOGY: PERCEPTION (4). Method and theory in the psychology of perception; objective study of the relationships between an organism’s physical and behavioral environments, covering behavioral, phenomenological and neurological approaches. Emphasis is on the active role of the brain and higher-order cognitive processes in creating our perceptual experiences, particularly vision. Lecture and laboratory. PRQ: At least junior standing, PSYC 305, and either PSYC 300 or PSYC 345; or consent of department.

431. PHYSIOLOGICAL PSYCHOLOGY (4). Crosslisted as BIOS 431X. Understanding the physiological … … At least junior standing, PSYC 305, and either BIOS 104 or PSYC 300; or consent of department.

Other Catalog Change

Major in Psychology (B.A. or B.S.)

↓

Group 3

↓

A two-semester laboratory sequence to be met by one of the following sequences (7-9)

- BIOS 304 - General Biology (4), and BIOS 205 - Organismal Diversity (3), and BIOS 207 - Organismal Diversity Laboratory (1)
- OR BIOS 213 - Introductory Bacteriology (3), OR BIOS 357 - Human Anatomy and Physiology (5)

↓

COLLEGE OF VISUAL AND PERFORMING ARTS
School of Art

Course Deletions

Pages 317 & 320 & 321, 2012-13 Undergraduate Catalog

- ART 406 SENIOR PROJECT (3)
- ARTS 328. ILLUSTRATION II (3)
- ARTS 441A. INTERMEDIATE HAND-BUILDING CERAMICS (4)
- ARTS 441B. INTERMEDIATE WHEEL-THROWING CERAMICS (4)
- ARTS 453 BEGINNING ENAMELING (3)
- ARTS 454 ADVANCED ENAMELING (3)

New Courses

Page 317, 2012-13 Undergraduate Catalog

CIP CODE: 50.0701

- ARTD 215. DIGITAL PHOTOGRAPHY FOR NON-MAJORS (3). Introductory level digital photography class for non-majors. This course will focus on digital imaging techniques, emphasizing the use of the camera and computer as a creative tool. Students will learn the essentials of digital photographic equipment and techniques as well as photographic image-making history, theory, and practice. Students will learn instruction in how to shoot, edit, manipulate, and critique photographs. A digital camera with manual focus and exposure controls is required.

Page 318, 2012-13 Undergraduate Catalog

CIP CODE: 50.0701

- ARTE 109. STRATEGIC VISUAL THINKING (3). This course investigates the role of visual design in the presentation of quantitative information in order to promote vigorous dialogue around the interactions of complex data streams, and this fosters robust decision-making. The course provides an introduction to social science research through data collection, quantitative analysis, and interpretation as students complete their own original survey research.

Page 322, 2012-13 Undergraduate Catalog

CIP CODE: 50.0701

- ARTS 471. SPECIAL TOPICS IN FIBER (4 or 8). Emphasis on specific topics or processes within the
fiber curriculum. Special topics include Artist Books, Japanese Papermaking, T-Shirt, Body Boundaries, Garment as Metaphor, and others. May be repeated to maximum of 36 semester hours.

ARTD 201. INTRODUCTION TO VISUAL COMMUNICATION (4). Introduces composition, … … area of study. PRQ: Students must meet the limited admissions requirements for the Visual Communication area of study. ART 100 and ART 102 with a minimum cumulative GPA of 2.50, or CRQ: ART 100 and ART 102 with a minimum of 12 semester hours of college-level course work, and a minimum cumulative GPA of 2.50.

ARTD 313. BEGINNING PHOTOGRAPHY (4). Designed to … … art medium. PRQ: Consent of school Art major or minor

ARTD 355. CRITICAL TOPICS IN ART AND TIME (4). Seminar on theoretical, social, and aesthetic issues in interactive and computer-based 4-D art. PRQ: Successful completion of sophomore portfolio review in photography, time arts, or visual communication, any area in the School of Art, or consent of school.

ARTD 405. PROFESSIONAL PRACTICES IN DESIGN (4). Investigation of … … and responsibilities. PRQ: ARTD 212 or successful completion of review in the Design and Media Arts division, or consent of school.


ARTE 200. STUDIO FOUNDATIONS FOR ART AND DESIGN EDUCATORS (3). … … PRQ: ART 100, ART 103; successful completion of the Test for Academic Proficiency or a Composite ACT Plus Writing score of at least 22; or a composite (mathematics and critical reading) SAT score of 1030 or 3 of the 4 TAP sections successfully completed with the final section taken and passed during the semester ARTE 200 is taken along with a TAP Workshop. TAP Prep Course is required for any student with a score of 19 or below on the ACT.

ARTE 342. INTRODUCTION TO ART AND DESIGN EDUCATION: CONTENT AND CLINICAL EXPERIENCE AT THE ELEMENTARY LEVEL (4). … … PRQ: Proof of freedom from tuberculosis, successful completion of the Illinois Test of Basic Skills Test for Academic Proficiency and the criminal background check required for certification in a Composite ACT Plus Writing score of at least 22; or a composite (mathematics and critical reading) SAT score of 1030; ART 100 and ART 101 and ART 102 and ART 103 and ARTH 291 and 292; and minimum 2.75 cumulative GPA.

ARTH 499H. SENIOR THESIS (3). … …

ARTS 327. BEGINNING ILLUSTRATION I(4). … …

ARTS 341. FUNDAMENTALS OF BEGINNING CERAMICS (4). … …

ARTS 346A. INTERMEDIATE HAND-BUILDING CERAMICS (4 or 8). Use of hand-building techniques for the exploration of form in individually assigned problems. Laboratory experience in clay and glaze testing, studio clay mixing, and kiln firing. Studio and lecture. May be repeated to a maximum of 8 semester hours. PRQ: ARTS 341 or consent of school.

ARTS 346B. INTERMEDIATE WHEEL-THROWING CERAMICS (4 or 8). Exploration of form and texture through individually assigned problems using wheel-throwing techniques. Laboratory experience in clay and glaze testing, studio clay mixing, and kiln firing. Studio and lecture. May be repeated to a maximum of 8 semester hours. PRQ: ARTS 341 or consent of school.

ARTS 368. PAPERMAKING INTRODUCTION TO FIBER: PAPERMAKING (4). Exploration of … … of materials. PRQ: ART 103 or consent of school.

ARTS 371. WEAVING 2-D/3-D WOVEN CONSTRUCTION (4). Exploration of two- and four-harness weaving with emphasis on cloth as an expressive medium. Studio, lecture, readings, and discussion of the meaning/context of cloth. PRQ: ART 103 or consent of school. Students explore exploration of a range of techniques for making two- and three-dimensional work. Technical information includes pattern and pictorial weaving, textile dyeing/printing/painting, and 3-D woven construction processes. After initial experimentation with techniques, students are encouraged to push the boundaries of the media, using both traditional and experimental materials. Students are challenged to explore the unique conceptual principles of textiles: the sculptural potential of fabric construction, the meaning and metaphors of material, and the narrative capacity of cloth.

ARTS 372. SURFACE EXPLORATION OF FABRIC INTRODUCTION TO FIBER: PRINT DYE PAINT STITCH (4). … …

ARTS 374. 3D FORMS IN FIBER INSTALLATION AND FIBER SCULPTURE (4) Exploration of materials and processes for creating installation work and three-dimensional forms in the fiber tradition. Wrapping, coiling, knotting, looping, basic papermaking and the notion of skins (gut, paper pulp, latex), and sculptural fabric techniques will be explored. Studio, lecture, readings, and discussion of the meaning/context of materials. PRQ: ART 103 or consent of school. The concept of installation includes relationships of objects and site-specific work, and will examine a range of spaces. Concepts are developed through research, readings, material investigations, and developments of three-dimensional studies. When taught in the spring semester, the class will focus on object construction; in fall semester, the focus is directed to installation concepts and working in a range of public and private spaces.
ARTS 436. SELECTED PROBLEMS IN ILLUSTRATION (4). \ldots \ldots \textbf{PRQ: ARTS 328.} \\

ARTS 446. ADVANCED CERAMICS (4 or 8). Studio work \ldots \ldots \text{May be repeated. PRQ: PRQ: ARTS 441A 346A and or ARTS 441B 346B, or consent of school.} \\

ARTS 451. ADVANCED METALWORK AND JEWELRY (4 or 8). Intensive studio \ldots \ldots \text{May be repeated. PRQ: ARTS 352 and successful completion of sophomore portfolio review in metalwork and jewelry, or consent of school.} \\

ARTS 470: INTERMEDIATE/ADVANCED FIBER STUDIO \textbf{WORKSHOP} (4-8) \textbf{A. Weaving. PRQ: ARTS 371.} \\

\downarrow \text{ARTS 470D - INTERMEDIATE/ADVANCED FIBER STUDIO PAPERMAKING PRQ: ARTS 368.} \\

\begin{itemize}
\item Individual exploration in any area of fiber curriculum with emphasis on the development of personal themes. \textit{Exploration across fiber curriculum to create integrated body of work.} \textbf{Students expand their exploration across the fiber curriculum to create an integrated body of work. In addition to \textit{Studio projects}, advanced students develop an artist’s statement and documentation of their work in slides.} \\
\item \textit{Studio, lecture, readings, and discussion. May be repeated to a maximum of 27-36 semester hours. Credit in more than one area during a semester is permitted.} \\
\end{itemize}

Other catalog changes \hspace{1cm} Page 313, 2012-13 Undergraduate Catalog

\begin{itemize}
\item Major in Art and Design Education (B.S.Ed.). \hspace{1cm} \downarrow \\
\begin{itemize}
\item Requirements in School (82) \hspace{1cm} \downarrow \\
\item ART 100 - Drawing Foundation I (3) \\
\item ARTE 387 - Assessing Art and Design Learning, K-12 (3) \\
\item OR ETR 430 - Classroom Assessment in Elementary Education (3) \\
\item OR ETR 440 - Classroom Assessment Techniques (3) \\
\item ARTE 463 – Art, Criticism and Communication in Education (3) \\
\item One of the following pairs of courses \textit{*}(4) \\
\item ARTS 300 - Intermediate Drawing (4) AND ARTS 310 - Issues in Contemporary Drawing (4) \\
\item ARTD 313 - Beginning Photography (4) AND ARTD 413 - Intermediate Traditional Photography (4) \\
\item One of the following \textit{*}(4) \\
\item ARTS 341 - Fundamentals of Beginning Ceramics (4) \\
\item ARTS 351 - Beginning Metalwork and Jewelry (4) \\
\item ARTS 361 - Beginning Sculpture I (4) \\
\item One of the following \textit{*}(4) \\
\item ARTS 300 - Intermediate Drawing (4) \\
\end{itemize}
\end{itemize}
ARTD 313 - Beginning Photography (4)  
300- or 400-level art history courses (3)  
ARTE 479 - Art for Special Needs Populations (3)  
OR TLSE 457 - Systems for Integrating the Exceptional Student in the Regular Classroom (3)  
ARTE 482 - Clinical Experiences in and Studio Pedagogy (3)  
ARTE 488A - Student Teaching in Elementary Art (6)  
ARTE 488B - Student Teaching in Secondary Art (6)  
300- or 400-level art history courses (3)  
ARTE 479 - Art for Special Needs Populations (3)  
OR TLSE 457 - Systems for Integrating the Exceptional Student in the Regular Classroom (3)  
ARTE 482 - Clinical Experiences in and Studio Pedagogy (3)  
ARTE 488A - Student Teaching in Elementary Art (6)  
ARTE 488B - Student Teaching in Secondary Art (6)  

16 semester hours in the following three categories with no repetition of courses:

1. One of the following pairs of courses (8)
   - ARTS 300 - Intermediate Drawing (4) AND ARTS 310 - Issues in Contemporary Drawing (4)  
   - ARTS 321 - Waterbased Painting I (4) AND ARTS 324 - Painting II (4)  
   - ARTS 323 - Painting I (4) AND ARTS 324 - Painting II (4)  
   - ARTS 327 - Illustration I (4) AND ARTS 437 - Intermediate Illustration (4)  
   - ARTS 330 - Introduction to Printmaking (4) AND ARTS 331 - Intermediate Printmaking: Lithography (4)  
   - ARTS 330 - Introduction to Printmaking (4) AND ARTS 333 - Intermediate Printmaking: Serigraphy (4)  
   - ARTS 341 - Fundamentals of Beginning Ceramics (4) AND ARTS 346B - Intermediate Wheel-Throwing Ceramics (4)  
   - ARTS 351 - Beginning Metalwork and Jewelry (4) AND ARTS 352 - Intermediate Metalwork and Jewelry (4)  
   - ARTS 361 - Beginning Sculpture I (4) AND ARTS 362 - Beginning-Intermediate Sculpture II (4)  
   - ARTD 313 - Beginning Photography (4) AND ARTD 413 - Intermediate Traditional Photography (4)

2. One of the following (4)
   - ARTS 341 - Fundamentals of Beginning Ceramics (4)  
   - ARTS 351 - Beginning Metalwork and Jewelry (4)  
   - ARTS 361 - Beginning Sculpture I (4)

3. One of the following (4)
   - ARTS 300 - Intermediate Drawing (4)  
   - ARTS 321 - Waterbased Painting I (4)  
   - ARTS 323 - Painting I (4)
ARTS 327 - Illustration I (4)
ARTS 330 - Introduction to Printmaking (4)
ARTD 313 – Beginning Photography (4)

**Requirements outside School (9)**
Depending on the courses selected, the multicultural requirement may also be applied toward general education requirements.

*EPFE 201 - Education as an Agent for Change (3)  
* OR IDSP 211 - Educating for Cultural Sensitivity (3)  
EPFE 400 - Foundations of Education (3)  
* OR EPFE 410 - Philosophy of Education (3)  
EPS 405 - Issues in Human Development in the Elementary Through High School Years (3)

**Special Requirements**

To gain admission into the certification program, students must successfully complete the Illinois Test of Basic Skills for Academic Proficiency or achieve a Composite ACT Plus Writing score of at least 22; or a composite (mathematics and critical reading) SAT score of 1030 or pass 3 of the 4 TAP sections successfully with the final section taken and passed during the semester ARTE 200 is taken along with a TAP Workshop. TAP Prep Course is required for any student with a score of 19 or below on the ACT or 1030 on the SAT and the criminal background check required for certification (prior to ARTE 342) for each clinical experience course, as well as, student teaching site as laid out per each sites rules and regulations, pass the entrance portfolio review, and have achieved a grade of at least C or better in ARTE 342. Also see "Teacher Certification Requirements."

---

**Other Catalog Change**  Page 315, 2012-13 Undergraduate Catalog

**Major in Studio Art (B.F.A.)**

**Illustration**

ARTS 327 - Beginning Illustration I (4)

---

**Other Catalog Change**  Page 316, 2012-13 Undergraduate Catalog

**Major in Studio Art (B.F.A.)**

**Ceramics (61)**
ARTS 200 - Beginning Life Drawing (3)
ARTS 341 - Intermediate Hand-Building Ceramics (4)
ARTS 346A - Intermediate Wheel-Throwing Ceramics (4)
ARTS 351 - Beginning Metalwork and Jewelry (4)
ARTS 361 - Beginning Sculpture (4)
One of the following (4)
  ARTS 368 - Papermaking (4)
  ARTS 371 - Weaving (4)
  ARTS 372 - Surface Exploration of Fabric (4)
  ARTS 374 - 3-D Forms in Fiber (4)
ARTS 406 - Senior Project (4)
ARTS 441A - Intermediate Hand-Building Ceramics (4)
ARTS 441B - Intermediate Wheel-Throwing Ceramics (4)
ARTH 350 - Studies in Contemporary Art (3)
Art studio electives (8)

Special requirement
The student must successfully complete a sophomore portfolio review in ceramics after the following courses.
  ARTS 341 - Intermediate Hand-Building Ceramics (4), AND
  ARTS 346A - Intermediate Wheel-Throwing Ceramics (4)

↓
Fiber
↓
ARTS 341 - Fundamental of Beginning Ceramics (4)
↓
ARTS 368 - Introduction to Fiber: Papermaking (4)
ARTS 371 - Weaving 2-D/3-D Woven Construction (4)
ARTS 372 - Surface Exploration of Fabric: Introduction to Fiber: Print Dye Paint Stitch
ARTS 374 - 3-D Forms in Fiber: Installation and Fiber Sculpture (4)

↓
Metalwork and Jewelry
↓
ARTS 341 - Fundamental of Beginning Ceramics (4)
↓
ARTS 368 - Introduction to Fiber: Papermaking (4)
ARTS 371 - Weaving 2-D/3-D Woven Construction (4)
ARTS 372 - Surface Exploration of Fabric: Introduction to Fiber: Print Dye Paint Stitch
ARTS 374 - 3-D Forms in Fiber: Installation and Fiber Sculpture (4)
SECTION A – Recorded for inclusion in the Undergraduate Catalog p. 72 of 74

Sculpture
ARTS 341 - Fundamentals of Beginning Ceramics (4)
↓
ARTS 368 - Introduction to Fiber: Papermaking (4)
ARTS 371 - Weaving 2-D/3-D Woven Construction (4)
ARTS 372 - Surface Exploration of Fabric: Introduction to Fiber: Print Dye Paint Stitch
ARTS 374 - 3D Forms in Fiber: Installation and Fiber Sculpture (4)
↓

School of Music

Course Deletions Pages 326 & 330, 2012-13 Undergraduate Catalog

MUHL 427. AMERICAN MUSIC IN THE FOLK AND POPULAR TRADITIONS (3).

MUED 176 MUSIC EDUCATION CONVOCATION (1).

New Courses Page 326, 2012-13 Undergraduate catalog.

CIP CODE: 50.0902

MUHL 324. MUSIC HISTORY REVIEW I (2). Development of Western art music from its origins to 1750. Does not satisfy graduate music history requirements for any degree program. Credit earned does not count toward the M.M. degree or Performer’s Certificate. Students must earn a grade of C or higher in order to satisfy the deficiency for this course. Open only to M.M. students.

MUHL 325. MUSIC HISTORY REVIEW II (2). Development of Western art music from 1750 to 1900. Development of music in the Western world in the Classic and Romantic periods. We will study individual composers and their styles and lives as well as consider social, political, and cultural developments to see how music relates and contributes to its historical context. Does not satisfy graduate music history requirements for any degree program. Credit earned does not count toward the M.M. degree or Performer’s Certificate. Students must earn a grade of C or higher in order to satisfy the deficiency for this course. Open only to M.M. students.

New Courses Page 327, 2012-13 Undergraduate Catalog

CIP CODE: 50.0904

MUTC 402. MUSIC THEORY REVIEW (3). Review of harmony, analytical techniques, and listening strategies necessary for graduate-level study of music theory. Does not satisfy any graduate music theory requirements. Credit earned does not count toward the M.M. degree. Open only to students admitted to the M.M. degree program.
SECTION A – Recorded for inclusion in the Undergraduate Catalog

Course Revision
Page 326, 2012-13 Undergraduate Catalog

MUHL 426. AMERICAN MUSIC IN THE CONCERT TRADITION (3) … …

Course Revision
Page 328, 2012-13 Undergraduate Catalog

MUSP 219. GUITAR: PRIMARY (1-4). Emphasis on … … performance emphasis (B.M.). 1 semester
hours’ credit in section 1 plus 1 semester hours’ credit in section 2 for students pursuing B.M. music
education plus B.M. in jazz performance. May be repeated.

Course Revisions
Page 329, 2012-13 Undergraduate Catalog

MUSE 321. MIXED ENSEMBLE (1). Ensemble … …. May be repeated. Students can enroll in more
than one section in a term.

MUSE 343. OPERA WORKSHOP THEATRE (1). Study of vocal … …. Students registered for MUSP
214 may not concurrently register for MUSC 390 MUSE 343 without the permission of the MUSP 214
instructor.

Other Catalog Change
Page 323, 2012-13 Undergraduate Catalog

Major in Music (B.M.)
↓
Emphasis 1. Music Education
↓
MUED 150 – Introduction to Music Education/Field Experience in Public Schools (1)
MUED 176 – Music Education Convocation (1)
MUED 250 – Elementary General Music Methods (3)
↓

School of Theatre and Dance

Course Deletions:
Page 336, 2012-13 Undergraduate Catalog

THEA 421. THEATRE DESIGN VI (3)

Other Catalog Changes
Page 332, 2012-13 Undergraduate Catalog

Major in Theatre Studies (B.A.)
↓
THEA 215 - Fundamentals of Storytelling (3)
THEA 216 - Acting I: Performing Skills (3)
THEA 220 - Introduction to Design (3)
Major in Theatre Arts (B.F.A.)

Emphasis 2. Design and Technology

Course work from the following (15)

- THEA 437 - Dyeing and Fabric Modification for the Theatre (3)
- THEA 449 - Design and Technology (3)
- THEA 450 - Advanced Drafting (3)

Rationale: This is a topics course that is offered regularly. It would eliminate the need to substitute it in students' progress reports.