

Undergraduate catalog 2012-2014

2013 Supplement



ILLINOIS STATE
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ILLINOIS STATE UNIVERSITY

Undergraduate Catalog

2013 Supplement

Effective May 13, 2013

The purpose of this 2013 Supplement is to provide additional information about new programs and courses beyond what appeared in the published *2012-2014 Undergraduate Catalog*. This supplement is being provided in order for all curriculum information to be available for advisement and course selection to better serve students, advisors, and the campus community. This supplement includes: new courses, new programs, and revisions to programs and courses due to accreditation standards, and/or administrative requests. Additionally, this supplement provides other changes in policies or degree requirements that have occurred since the publishing of the *2012-2014 Undergraduate Catalog*.

For the catalog information online, visit the Website at: illinoisstate.edu/home/catalog

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Board of Trustees

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Anne Davis, Tinley Park
Robert Dobski, Bloomington
Rocky Donahue, Orland Park
Betty Kinser, Normal
Joanne Maitland, Bloomington
Michael McCuskey, Urbana, Chair
One student

University Administrative Officers

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Dane Ward, Dean, University Libraries

Illinois State University Mission Statement

We at Illinois State University work as a diverse community of scholars with a commitment to fostering a small-college atmosphere with large-university opportunities. We promote the highest academic standards in our teaching, scholarship, public service and the connections we build among them. We devote all our resources and energies to creating the most supportive and productive community possible to serve the citizens of Illinois and beyond.

Adopted by Academic Senate, May 7, 2008.

University Offices

| | |
|--|--|
| University Operator | (309) 438-2111 |
| Academic Advisement | 438-7604; ucollege.IllinoisState.edu/advising |
| Admissions | 438-2181; IllinoisState.edu/Admissions |
| Dean of Students | 438-2008; DeanOfStudents.IllinoisState.edu |
| Disability Concerns | 438-5853; DisabilityConcerns.ilstu.edu |
| Office of Equal Opportunity, Ethics and Access | 438-3383; EqualOpportunity.IllinoisState.edu |
| Financial Aid | 438-2231; FinancialAid.IllinoisState.edu |
| Graduate School | 438-2583; Grad.IllinoisState.edu |
| Honors Program | 438-2559; Honors.IllinoisState.edu |
| International Studies | 438-5365; InternationalStudies.IllinoisState.edu |
| Office of Parking and Transportation | 438-8391; Parking.ilstu.edu |
| Family Services | 438-3753; DeanofStudents.IllinoisState.edu |
| Student Affairs | 438-5451; StudentAffairs.ilstu.edu |
| Registrar Service Center | 438-2188; www.registrar.ilstu.edu |
| University College | 438-3217; ucollege.IllinoisState.edu |
| University Housing Services | 438-8611; Housing.ilstu.edu |
| University Registrar | 438-2188; www.registrar.ilstu.edu |
| Veterans Services | 438-2207; Veterans.IllinoisState.edu |

Visit our Illinois State University Web site at: IllinoisState.edu

The statements in this catalog supplement are for informational purposes only and should not be construed as the basis of a contract between a student and Illinois State University. The course offerings and requirements of the University are continually under review and revision. This catalog supplement presents those in effect at the time of publication. Courses listed in this publication are subject to revision without advance notice and are not necessarily offered each term or each year.

Information regarding changes will be available in the Offices of the University Registrar, the Provost, and the major departments and schools. It is especially important that each student note that it is his or her responsibility to be aware of current graduation requirements for a particular degree program.

OFFICE OF EQUAL OPPORTUNITY, ETHICS AND ACCESS

Illinois State University fosters a campus environment that recognizes individual and cultural differences and is strongly committed to the ethical and legal principle that each faculty member of the University community enjoys academic freedom and all members of the University have a constitutional right to free speech. The right of free expression and the open exchange of ideas and views are essential, especially in a learning environment. Illinois State University vigorously upholds these freedoms. However, the value of free expression may be undermined by certain acts of harassment or discrimination. Such harassment or discrimination may result in the loss of self-esteem for the victim and the deterioration of a quality classroom, social, or work environment. Therefore any act of harassment or discrimination will not be tolerated.

Harassment or discrimination based upon race, ethnicity, national origin, color, religion, gender, gender identity and expression, age, disability, sexual orientation, or veteran status is in violation of the law and this policy and will not be tolerated.

Retaliation against any person alleging harassment, discrimination, or exercising their legal right to have their allegation investigated (either internally or externally) is prohibited both by law and this policy.

As members of the Illinois State University community, students, faculty, administrators and staff have the responsibility to respect and not violate the rights of others and to show tolerance for opinions that differ from their own. However, nothing in this policy prohibits appropriate admonition, argument and correction by an instructor in the conduct of his/her professional responsibility in the interest of maintaining order, upholding standards, stimulating thought or promoting competence. Such action is, by definition, not a violation of this policy. Likewise, nothing in this policy precludes management's inherent authority to plan, direct and evaluate the activities of other organizational members in accordance with sound management principles and directives, including communicating, training and disciplining employees.

All students, faculty and staff are expected to adhere to this policy and will be held accountable for violating it. Illinois State University will respond promptly to all complaints of harassment, discrimination, and retaliation. Violation of this policy can result in serious disciplinary action up to and including expulsion for students or discharge for employees.

Definitions:

Discrimination: an action or behavior that results in negative or different treatment of an individual based upon race, ethnicity, national origin, color, religion, gender, gen-

der identity and expression, age, disability, sexual orientation, or veteran status.

Harassment: an unwelcome conduct that is based upon race, ethnicity, national origin, color, religion, gender, gender identity and expression, age, disability, sexual orientation, or veteran status.

Sexual Harassment: any unwelcome behavior of a sexual nature which may be physical, verbal, or non-verbal. Sexual harassment includes unwelcome sexual advances, requests for sexual favors, or other behavior of a sexual nature and becomes a violation of University policy when:

- The offensive conduct explicitly or implicitly becomes a term or condition of employment or participation in a university course, program or activity; or
- The conduct is sufficiently severe, pervasive, or persistent as to interfere with an individual's work, academic or program participation, or creates an environment that a reasonable person would consider intimidating, hostile or offensive.

Retaliation: occurs when an adverse action is taken against an individual because s/he engaged in a protected activity such as filing a harassment/discrimination complaint or participating in an investigation of a harassment/discrimination investigation.

Statute of Limitations:

To be actionable, a complaint must be filed with the Office of Equal Opportunity, Ethics, and Access within 180 days of the most recent incident of alleged harassment or discrimination.

Confidentiality:

While confidentiality cannot be guaranteed, persons involved in a discrimination, harassment, or sexual harassment complaint are expected to treat all information as confidential unless disclosure of the information is compelled by law.

Contact Information:

For more information regarding this policy or to file a formal complaint please contact:

The Office of Equal Opportunity, Ethics, and Access
Illinois State University
208 Hovey Hall – Campus Box 1280
Normal, IL 61790
Phone: (309) 438-3383
Website: www.EqualOpportunity.ilstu.edu

NOTIFICATION OF RIGHTS UNDER FERPA AND PUBLIC NOTIFICATION OF DIRECTORY INFORMATION

Notification of Rights Under FERPA for Postsecondary Institutions:

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

(1) The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.

A student should submit to the University Registrar a written request that identifies the record(s) the student wishes to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

(2) The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

(3) The right to provide written consent before the University discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The University discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a

disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University.

Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

(4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

Public Notification of Directory Information:

At its discretion, Illinois State University may provide "directory information" in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974 (FERPA). Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. Designated directory information at Illinois State University includes the following: student's name, address (local & home), telephone listing (local and home), electronic email address, date and place of birth, major field of study, dates of attendance, grade level, enrollment status (e.g. undergraduate or graduate, full-time or part-time), participation in officially recognized activities or sports, weight or height of members of athletic teams, target graduation date, degrees, honors and awards received, and the most recent educational agency or institution attended. Students may block the public disclosure of directory information by notifying the Office of the University Registrar in writing prior to the first day of classes.

Please consider very carefully the consequences of a decision to withhold directory information. A non-disclosure block will call for Illinois State University not to release any of this "directory information;" thus, any future requests for such information from non-institutional persons or organizations will be refused.

Illinois State University will honor your request to withhold directory information but cannot assume responsibility to contact you for subsequent permission to release this information. Regardless of the effect upon you, Illinois State University assumes no liability as a result of honoring your instructions that such information be withheld.

Although the initial request may be filed at any time, requests for non-disclosure will be honored by the University until removed, in writing, by the student.

University Calendar, 2013-2014

2013 Summer Session

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|-----------|--|
| May 13 | Opening of summer session. |
| May 27 | Memorial Day holiday. |
| July 4 | Independence Day holiday - no classes. |
| August 9 | Summer session ends. |
| August 13 | Grades due by 12:00 noon. |

2013 Fall Semester

| | |
|------------|--|
| Aug. 12-18 | Registration and program change. Please see registration information at www.registrar.ilstu.edu . |
| Aug. 18 | Last day to withdraw from classes with a full refund of tuition and fees. |
| Aug. 19 | Classes begin. |
| Aug. 30 | Last day for online registration. |
| Sept. 2 | Labor Day holiday. |
| Oct. 11 | Last day to withdraw or to remove credit/no-credit or audit option from a full semester class. |
| Oct. 12 | First half of semester ends. |
| Oct. 14 | Second half of semester begins. |
| Nov. 8 | Last day to withdraw from the University for Fall 2013 |
| Nov. 23 | Thanksgiving vacation begins at 12:00 noon. |
| Dec. 2 | Classes resume. |
| Dec. 7 | Last day of classes. |
| Dec. 9-13 | Evaluation and review period. |
| Dec. 13 | Fall semester ends. |
| Dec. 14 | Commencement. |
| Dec. 17 | Grades due by 12:00 noon. |

2014 Spring Semester

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|-----------|--|
| Jan. 6-12 | Registration and program change. Please see registration information at www.registrar.ilstu.edu . |
| Jan. 12 | Last day to withdraw from classes with a full refund of tuition and fees. |
| Jan. 12 | Classes begin. |
| Jan. 20 | Martin Luther King, Jr. holiday. |
| Jan. 27 | Last day for online registration. |
| Mar. 7 | Last day to withdraw or drop the credit/no-credit or audit option from a full semester class. |
| Mar. 8 | First half semester ends. Spring vacation begins at noon. |
| Mar. 17 | Classes resume. |
| April 11 | Last day to withdraw from the University for Spring |
| May 3 | Last day of classes. |
| May 5-9 | Evaluation and review period. |
| May 9 | Spring semester ends. |
| May 9-11 | Commencement. |
| May 13 | Grades due by 12:00 noon. |

Religious Observances:

Any student who is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study, or work requirement on a particular day shall be excused from any such examination, study, or work requirement and shall be provided with an opportunity to make up the examination, study, or work requirement that he or she may have missed because of such absence on a particular day; provided that the student notifies the faculty member or instructor well in advance of any anticipated absence or a pending conflict between a scheduled class and the religious observance and provided that the make-up examination, study, or work does not create unreasonable burden upon the institution. No fees of any kind shall be charged for making available to the student such an opportunity. No adverse or prejudicial effects shall result to any student because of his or her availing himself or herself of these provisions.

NEW AND REVISED COURSES

The following new and revised courses were approved during the 2012-2013 curriculum year and are listed by college, and then department or school. Course revisions are being implemented due to administrative requests and/or accreditation requirements. Catalog copy for revised courses replaces what is published in the 2012-2014 *Undergraduate Catalog*. For information on whether courses are being offered contact the department or school or visit: My.IllinoisState.edu/offerings.

College of Applied Science and Technology

AGRICULTURE (AGR) 502

192 INTRODUCTION TO AGRICULTURAL COMMUNICATIONS AND LEADERSHIP 1 sem. hr.

Introduction to Agricultural Communications and Leadership; informal Agricultural Education settings and the communication field, media and campaign development. Prerequisite: AGR 190 or concurrent registration.

KINESIOLOGY AND RECREATION (KNR) 512

305 BIOMECHANICS OF EXERCISE AND PHYSICAL ACTIVITY 3 sem. hrs.

Analysis of exercise and physical activity based on principles of anatomy and mechanics of motion. Prerequisites: Major or minor only. KNR 164 and 282.

311 EXERCISE PROGRAMMING FOR CARDIOVASCULAR AND METABOLIC FITNESS 3 sem. hrs.

Development of skills and knowledge necessary for designing cardiovascular and metabolic exercise programs for all populations. Not for credit if had KNR 308. Prerequisites: Major or minor only. KNR 307 and 309.

313 EXERCISE PROGRAMMING FOR NEUROMUSCULAR FITNESS 3 sem. hrs.

Development of skills and knowledge necessary for designing neuromuscular exercise programs for all populations. Not for credit if had KNR 308. Prerequisites: Major or minor only. KNR 307 and 309.

TECHNOLOGY (TEC) 510

310 STEM EDUCATION FOUNDATIONS 3 sem. hrs.

Foundations of pedagogical content knowledge for developing, implementing, and assessing integrated/interdisciplinary science, technology, engineering, and mathematics (STEM) education at the secondary level. Prerequisites: Education major, graduate standing, or practicing teacher.

College of Arts and Sciences

ANTHROPOLOGY (ANT) 466

398.02 PROFESSIONAL PRACTICE: RESEARCH ASSISTANT IN ANTHROPOLOGY 3 sem. hrs.

Practical experience in the design, implementation, analysis, and reporting of anthropological research through supervised field or laboratory research experiences. May be repeated; maximum of 6 hours toward ANT major; maximum of 16 hours of all 398 towards graduation. Prerequisites: Completion of 75 hours or consent of the instructor.

BIOLOGICAL SCIENCES (BSC) 412

205 HUMAN DEVELOPMENTAL BIOLOGY 4 sem. hrs.

Regulation of tissue and organ patterning during early human development. Prerequisites: BSC 196 and 197.

*305 BIOLOGICAL EVOLUTION 3 sem. hrs.

Origin of life, molecular evolution, mechanisms of evolutionary change, natural selection, speciation, and contemporary issues in evolutionary biology. Formerly BSC 297. Prerequisites: BSC 196 and 197; junior or senior standing.

398.02 PROFESSIONAL PRACTICE: INTERNSHIP IN PUBLIC OUTREACH 1-6 sem. hrs.

Practical first-hand experience in educating the general public about science at a botanical garden or arboretum, aquarium, park, nature center, museum, zoo, or similar facility. One credit hour per 50-60 hours of outreach experience. CR/NC only. May be repeated; maximum of 6 hours Internship in Public Outreach; no more than 4 hours from BSC 290, 298.01, 299, 305, or 398 may be counted toward major requirements. Prerequisites: Junior standing in BSC major with 2.50 GPA in all natural sciences and enrolled in Conservation Biology, Plant Biology, or Zoology sequence. Consent of department Professional Practice internship supervisor.

CHEMISTRY (CHE) 416

*140 GENERAL CHEMISTRY I IC-NSA 4 sem. hrs.

Introduction to stoichiometry, thermochemistry, atomic structure, molecular structure and bonding, chemical equilibrium and kinetics with applications to gases, solids, liquids, and solutions. First half of a 2-semester sequence. Lecture and lab. May not be taken under the CT/NC option. Materials charge optional. Prerequisites: Designed primarily for students with high school credit in chemistry. Grade of C or better in MAT 119; or grade of C or better or concurrent registration in MAT 120 or 144 or 145; or consent of Department of Chemistry.

372 PHYSICAL BIOCHEMISTRY**3 sem. hrs.**

Exploration of biochemical systems through the use of thermodynamics, kinetics, and spectroscopy. Prerequisites: CHE 342 and 360 or consent of instructor; grade of C or better in both CHE 342 and 360 is required for Biochemistry majors.

373 PHYSICAL BIOCHEMISTRY LABORATORY**1 sem. hr.**

Introduction to experimental techniques in physical chemistry with emphasis on biochemical processes. Materials charge optional. Prerequisites: CHE 361; grade of C or better in CHE 361 is required for Biochemistry majors. CHE 372 or concurrent registration.

COMMUNICATION (COM) 448**180 INTRODUCTION TO NEWS TECHNOLOGY****3 sem. hrs.**

This course provides students with basic experience in the use of multimedia technologies for news gathering and presentation. Prerequisites: Journalism major only.

285 NEWS AND FEATURE ONLINE PRODUCTION**3 sem. hrs.**

Students will produce an online magazine, gaining experience in writing, editing, illustrating and laying out news and feature articles. Prerequisite: Consent of instructor.

382 THEORETICAL ISSUES IN NEWS CONVERGENCE**3 sem. hrs.**

This course explores theoretical and practical issues involving the impact of convergence on journalism, and on the news we consume.

ECONOMICS (ECO) 420**343 COMPETITION AND MANAGERIAL STRATEGIES****3 sem. hrs.**

Applications of game theory to managerial decisions in competitive, oligopolistic, and monopolistic markets. Prerequisite: ECO 239 or 240 or consent of instructor.

ENGLISH (ENG) 424**268 INTRODUCTION TO PLAYWRITING****3 sem. hrs.**

Introduction to playwriting; an exploration of the fundamental techniques as related to the development of the craft of playwriting. Also offered as THD 268. Formerly ENG/THD 289.29.

LANGUAGES, LITERATURES, AND CULTURES (LAN) 430**General Courses (.11)*****319 PRINCIPLES IN WORLD LANGUAGE LEARNING****3 sem. hrs.**

Exploration of current K-12 world language pedagogical practices and second language acquisition theories. Formerly *PRINCIPLES IN FOREIGN LANGUAGE LEARNING*. Prerequisites: To be taken concurrently with LAN 320.11. Grade of B or better in FR 235 or SPA 213 or GER 310. Grade of C or better in TCH 210 and TCH 216 or concurrent registration. Admission to Professional Studies. Advanced low or above on Oral Proficiency Interview.

320 WORLD LANGUAGE TEACHING IN THE K-12 SETTING*3 sem. hrs.**

Practical implementation of K-12 world language teaching techniques. Includes Clinical Experiences: 50 hours, Type 1, 2, 3, 4, 5, 9, 10. Formerly *FOREIGN LANGUAGE TEACHING IN THE K-12 SETTING*. Prerequisites: To be taken concurrently with LAN 319.11. Grade of B or better in FR 235 or SPA 213 or GER 310. Grade of C or better in TCH 210, 214 and 216 or concurrent registration. Admission to Professional Studies. Advanced low or above on Oral Proficiency Interview.

Courses in Portuguese (.02)**111 FIRST YEAR PORTUGUESE:****PART I****4 sem. hrs.**

Fundamentals of grammar. Practice in speaking, understanding, reading and writing Portuguese. Not recommended if student had 3 or more years of high school Portuguese. Not for credit if had PORT 112 or 115. Students that have not had any experience with Portuguese language should begin with this course.

112 FIRST YEAR PORTUGUESE:**PART II****4 sem. hrs.**

Continuation of Part I. Not for credit if had PORT 115. Prerequisite: PORT 111 or equivalent.

115 SECOND YEAR PORTUGUESE:**PART I****4 sem. hrs.**

Review of Portuguese grammar, vocabulary building, oral and written practice. Prerequisites: PORT 111 and 112 or equivalent.

College of Business

BUSINESS TEACHER EDUCATION (BTE) 559

141 PERSONAL FINANCE LITERACY FOR THE COLLEGE STUDENT MC-QR 3 sem. hrs.

Development of skills that promote financial responsibility by exploring the relationship between careers and money management. Not for Teacher Certification. Also offered as FIL 141.

FINANCE, INSURANCE AND LAW (FIL) 548

141 PERSONAL FINANCE LITERACY FOR THE COLLEGE STUDENT MC-QR 3 sem. hrs.

Development of skills that promote financial responsibility by exploring the relationship between careers and money management. Not for Teacher Certification. Also offered as BTE 141.

371 FINANCIAL PLAN DEVELOPMENT 3 sem. hrs.

Uses the financial planning process to develop skills for working with individuals, families, and business owners in meeting financial objectives. Prerequisites: FIL 342 and 345.

College of Education

TEACHING AND LEARNING (TCH) 533

318 EFFECTIVE STRATEGIES FOR TEACHING ENGLISH LEARNERS IN THE GENERAL EDUCATION CLASSROOM 3 sem. hrs.

To prepare teacher candidates in Early Childhood, Elementary, Middle Level and Secondary Education to be effective teachers of English learners. Not for credit towards Bilingual Education endorsement or approval. Prerequisites: Junior or senior standing.

College of Fine Arts

THEATRE AND DANCE (THD) 570

268 INTRODUCTION TO PLAYWRITING 3 sem. hrs.

Introduction to playwriting; an exploration of the fundamental techniques as related to the development of the craft of playwriting. Also offered as ENG 268. Formerly ENG/THD 289.29.

Interdisciplinary Studies Courses

INTERDISCIPLINARY STUDIES (IDS) 604

109 TRANSFER STUDENT SEMINAR 1 sem. hr.

A course assisting transfer students transition to the University, including exploration of involvement opportunities and social and academic adjustment issues. Prerequisite: First semester transfer student status.

113 THE ENTREPRENEURIAL MINDSET MC-IS 3 sem. hrs.

The course explores concepts of entrepreneurship from an interdisciplinary perspective and a diverse range of disciplines through experiential learning.

398.03 PROFESSIONAL PRACTICE: FOR INTERDISCIPLINARY STUDIES MAJOR OR MINOR 1-16 sem. hrs.

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations which are planned, administered, and supervised at the department level. Maximum of 16 hours may be applied toward graduation. Prerequisites: Major or Minor in Interdisciplinary Studies only. Consent of instructor.

NEW AND REVISED PROGRAMS

The following new and revised programs were approved during the 2012-2013 curriculum year and are listed by college and department or school. **Revised programs were due to accreditation mandates. Please contact your department advisor to determine whether you fall under the revised program requirements and course prerequisites in place of what is stated in the 2012-2014 Undergraduate Catalog.

For information on new programs contact the department or school.

College of Applied Science and Technology

TECHNOLOGY (TEC)

MAJOR IN ENGINEERING TECHNOLOGY

Engineering Technology is a interdisciplinary curriculum that provides experiences in the following areas: Automation, Product Design, Process Control, Plastic Materials, Quality Management, and/or Technical Project Management. The goal of the major is to prepare professionals capable of managing projects and processes in government and private enterprise settings. Coursework emphasizes the management of people, processes, and materials through hands-on activities. Initial employment opportunities include: project management, process control, production management, product design, quality control support, and technical sales.

- 75 hours required.
- 17 hours in General Education: CHE 102; MAT 120; MQM 100; PHY 105; PSY 110.
- 46 hours in Engineering Technology core courses: TEC 100, 111, 116, 130, 216, 233, 240, 263, 270, 285, 292, 313, 320, 330, 392; HSC 271.
- 12 hours minimum of sequence elective courses selected from the following: TEC 234, 244, 316, 345, 370 and 398 (3 hours only); ACC 131 and ECO 105. Students should see the department advisor for specific course recommendations.

ALLOWABLE SUBSTITUTIONS FOR REQUIRED COURSES:

- Acceptable substitutions for CHE 102 are CHE 110 and 112, or CHE 140.
- Acceptable substitution for MAT 120 is MAT 144 or 145.
- Acceptable substitution for MQM 100 is ECO 138.
- Acceptable substitutions for PHY 105 is PHY 108 or PHY 110.
- Acceptable substitution for TEC 270 is MQM 220.
- Acceptable substitutions for TEC 330 are ACC 131 and ACC 132.

College of Arts and Sciences

BIOLOGICAL SCIENCES (BSC)

Biological Sciences Programs

Degrees Offered: B.S.

**MAJOR IN BIOLOGICAL SCIENCES

- 37-40 hours in Biological Sciences required.
- Required courses for the major (* denotes laboratory courses): BSC 196*, 197*, 204.
- Students must complete one of the following sequences: General Biology; Conservation Biology; Physiology, Neuroscience and Behavior; Plant Biology; Zoology; Teacher Education.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; either CHE 220, or CHE 230 and 231; one of the following: PHY 105, 108 or 110; either MAT 120 and 121, or MAT 145 and 146. **NOTE:** One of the following may substitute for either MAT 121 or 146: ECO 138; GEO 138; or PSY 138.
- BSC 202, 307, and Biological Science courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Science courses must be completed at Illinois State University.

The following are new sequences in the MAJOR IN BIOLOGICAL SCIENCES.

General Biology Sequence

Majors selecting this sequence will receive broad training in the biological sciences. This sequence is designed for students seeking careers in any area of biology. This sequence will also prepare students for graduate studies in the Biological Sciences and/or post-baccalaureate professional schools. The minimum requirements for this sequence are:

- 38 total hours in Biological Sciences required.
- Required courses for the major (*denotes laboratory course): BSC 196*, 197*, and 204.
- Required courses for sequence: BSC 201*, 203, 219, 305.
- Students must choose two additional BSC courses with laboratories.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; either CHE 220, or CHE 230 and 231; one of the following: PHY 105, 108 or 110; either MAT 120 and 121, or MAT 145 and 146. **NOTE:** One of the following may substitute for either MAT 121 or 146: ECO 138, GEO 138, or PSY 138.
- BSC 202, 307 and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences courses must be completed at Illinois State University.

Conservation Biology Sequence

Biological Sciences majors selecting this sequence will receive broad training in conservation biology. This sequence is designed for students seeking careers in the conservation of natural ecosystems and their organisms (all levels of biodiversity). The coursework will also prepare students for graduate studies in conservation biology, and for internships and entry-level positions in conservation-oriented non-governmental organizations, state and federal governmental organizations, and environmental consulting firms. The minimum requirements for this sequence are:

- 38 hours in Biological Sciences required.
- Required courses for the major (*denotes laboratory course): BSC 196*, 197*, 204.
- Required courses for the sequence: BSC 201*, 219, 280, and 305.
- Elective courses structured across three Groups as follows:
 - Conceptual Group (one from the following): BSC 212*, 260*, 286*, 295*, 311, 325, 333*, 375 and 376*.
 - Botany Taxon Group (one from the following): BSC 211*, 223*, 330*, 335 and 336*.
 - Zoology Taxon Group (one from the following): BSC 292*, 294*, 296, 301*, 396*.
- Additional elective courses in Biological Sciences from the three groups as needed to meet a minimum of 16 hours.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; CHE 230 and 231; one of the following: PHY 105, 108 or 110; either MAT 120 and 121 or MAT 145 and 146. NOTE: one of the following may substitute for either MAT 121 or 146: ECO 138, GEO 138, or PSY 138.
- BSC 202, 307 and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences courses must be completed at Illinois State University.

Physiology, Neuroscience and Behavior Sequence

Majors selecting this sequence will receive broad training in physiology, neuroscience and behavior. This sequence is designed for students seeking careers that involve basic scientific and applied aspects of behavior, physiology and neuroscience. This sequence will also prepare students for graduate studies in neuroscience, physiology and animal behavior and related fields, and with additional coursework, students can meet the requirements to apply to veterinary and health professional schools. The minimum requirements for this sequence are:

- 37 hours in Biological Sciences required.
- Required courses for the major (*denotes laboratory course): BSC 196*, 197*, 204.
- Required courses for sequence: BSC 283*, 286*, 327,

and 343.

- 14 hours minimum in sequence-related elective courses required, at least one of which must have an associated laboratory and no more than two of these electives satisfying this requirement may be from the Psychology courses identified here: BSC 201*, 203, 219, 260*, 290, 292*, 294, 295, 296, 301*, 305, 311, 325, 345, 350, 353, 354, 367*, 396*; PSY 253, 263, 350.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; CHE 220 or 230 and 231; one of the following: PHY 105, 108, 110; either MAT 120 and 121 or MAT 145 and 146. NOTE: One of the following may substitute for either MAT 121 or 146: ECO 138, GEO 138, or PSY 138.
- BSC 202, 307 and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences courses must be completed at Illinois State University.

Plant Biology Sequence

Majors selecting this sequence receive broad training in plant biology. This sequence is designed for students seeking jobs with industries, the government and nonprofit organizations working with plants. This sequence will also prepare students for graduate studies in plant biology. The minimum requirements for this sequence are:

- 37 hours in Biological Sciences required.
- Required courses for the major (*denotes laboratory course): BSC 196*, 197*, 204.
- Required courses for the sequence: 212*, 219, 365.
- Elective courses as follows:
 - Conceptual Group (one from the following): BSC 201*, 203, or 260*.
 - Plant Group (two courses from the following): BSC 211*, 223*, 330*, 333, 335 and 336*, 346.
- Additional electives in Biological Sciences as needed to achieve the 37 hour minimum.
- Students must complete five Biological Sciences courses with laboratories (*).
- Research and internships enhance future prospects for employment and acceptance to graduate programs; hence students are strongly encouraged to pursue individual work via one of the following: 2 credit hours of BSC 287 Independent Study, 2 credit hours of BSC 398 Professional Practice, or at least 3 credit hours of BSC 290 Research in Biological Sciences. Students are also encouraged to do a formal senior thesis. For more information see the following Web site at: bio.IllinoisState.edu/undergrads/thesis.shtml.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; CHE 220, or CHE 230 and 231; one of the following: PHY 105, 108, 110; either MAT 120 and 121, or MAT 145 and 146. NOTE: One of the following may substitute for MAT 121 or 146: ECO 138, GEO 138, or PSY 138.
- BSC 202, 307 and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences courses must be completed at Illinois State University.

Zoology Sequence

Majors selecting this sequence will receive broad training in zoology. This sequence is designed for students seeking careers that involve working with animals. This sequence will also prepare students for graduate studies in Zoology and related fields (e.g., Entomology, Physiology, Wildlife Biology), and with additional coursework, students can meet the requirements to apply to veterinary and health professional schools. The minimum requirements for this sequence are:

- 40 hours in Biological Sciences required.
- Required courses for the major (*denotes laboratory course): BSC 196*, 197*, and 204.
- Required courses for the sequence: BSC 201*, 283*, 305.
- 7 hours minimum in organismal zoology electives, at least one with a laboratory: BSC 292*, 294, 296, 301*, 396*.
- 7 hours minimum in functional zoology electives, at least one with a laboratory: BSC 286*, 295*, 325, 327, 343, 345, 367*.
- Required courses outside of Biological Sciences: CHE 110 and 112 or 140 and 141; CHE 220, or CHE 230 and 231; one of the following: PHY 105, 108, 110; either MAT 120 and 121, or MAT 145 and 146. NOTE: One of the following may substitute for MAT 121 or 146: ECO 138, GEO 138, or PSY 138.
- BSC 202, 307 and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences courses must be completed at Illinois State University.

MAJOR IN MOLECULAR AND CELLULAR BIOLOGY

- 72 total hours required.
- 37 hours in Biological Sciences.
- Required Biological Sciences courses (22 hours) BSC 196*, 197*, 203, 204, 219, 260*, 350 (*denotes laboratory courses).
- A minimum of 6 hours in 300-level Biological Sciences courses is required, selected from the following: BSC 329, 343, 345, 346, 351, 353*, 354*, 355, 361*, 365, 367*, 370.
- Students must pass five BSC courses with laboratories (*).
- 8-10 hours required in Physics: Either PHY 108 and 109 (10 hours), or PHY 110 and 111 (8 hours).
- 7-8 hours required in Mathematics: MAT 145 and 146. NOTE: One of the following may substitute for MAT 146: ECO 138, GEO 138, or PSY 138.
- 20 hours required in Chemistry: CHE 140, 141, 230, 231, 232, 233, 342. Advisor may substitute CHE 242 for 342.
- BSC 202, 307, and Biological Sciences courses below 195 may not be used in the major.
- A minimum of 12 hours in Biological Sciences must be completed at Illinois State University.

HONORS IN MOLECULAR AND CELLULAR BIOLOGY

In order to graduate with honors in Molecular and Cellular Biology, a student must complete (1) all regular requirements for the Molecular and Cellular Biology Major; (2) Mathematics through 2 semesters of calculus; (3) 12 hours of Biological Sciences on a tutorial basis (i.e., in-course honors) with a grade of A or B in each; (4) 3 hours of BSC 299; (5) 1 hour of BSC 303 Senior Thesis; and (6) have at the time of graduation a cumulative GPA of at least 3.30 and at least 3.50 in Biological Sciences courses.

CHEMISTRY (CHE) 416

MAJOR IN BIOCHEMISTRY

- 45 hours required in Chemistry, including at least 37 hours in courses numbered 200 or higher.
- Required Chemistry courses (41 hours): CHE 140, 141, 215, 216, 230, 231, 232, 233, 250, 251, 342, 343, 344, 360, 361, 372, 373.
- 3 hours in advanced Chemistry courses required, selected from the following: CHE 315, 350.
- 1 hour in advanced Chemistry laboratory courses required, selected from the following: CHE 316, 351; one hour of undergraduate research (CHE 290 or 299) or coop/internship (CHE 398.01 or 390.50) may substitute for one of these courses.
- 14 hours required in Biological Sciences: BSC 196, 197, 203, 219.
- 1 year of Physics, preferably PHY 110 and 111, and 1 year of Calculus (through MAT 146) must be completed prior to enrolling in CHE 360.
- Biochemistry electives: The department strongly recommends that students take at least 6 hours of advanced electives. Advising options for various career objectives are available from the department office and on the department Web page.
- A course in the major may not be taken more than twice unless the course description states “may be repeated.” An exception may be requested once during a student’s undergraduate career if the GPA in the major plan and overall GPA is 2.00 or higher.
- A grade of C or better is required in the following Chemistry courses: CHE 140, 141, 215, 216, 230, 231, 232, 250, 251, 342, 360, 361.
- Students completing this degree program will earn an American Chemical Society Certified Degree.

EDITORIAL CORRECTIONS TO THE 2012-2014 UNDERGRADUATE CATALOG

The following information is being provided to make students, faculty, and advisors aware of errors in the 2012-2014 Undergraduate Catalog. The following catalog copy should be used in place of what is shown in the published 2012-2014 Undergraduate Catalog for the following policy.

75 Hour Limit on Undeclared Student Status: Illinois State University requires all students to have a declared major upon completion of 75 hours of college-level coursework, including transfer credit. **At 75 hours earned, students who are undeclared will have their next semester's schedule dropped unless they successfully complete an appeal process through University College.** To be eligible for financial aid and in order to be consistent with federal financial aid guidelines, Illinois State students with 75 hours or more must be enrolled in a major program leading to a degree. For further information on this policy and on finding and declaring a major, see IllinoisState.edu/majors.
(corrected appeal process location)

DEGREE REQUIREMENTS REVISIONS

The following *revisions and additions were approved for the General Requirements for Graduation and replace those published in the *2012-2014 Undergraduate Catalog*.

- D. ***Major-Minor Options:** Each candidate for B.S. or B.A. degrees must complete a major field of study. Completion of a second major, a minor, or a second minor is optional unless specified by the student's major. A teacher education student who is a candidate for a B.S., B.A., B.S. in Ed., or B.M.E. degree must complete professional education requirements and a major approved for teacher education. Some teacher education programs require the completion of requirements for a second teaching field. At least half (with a minimum of nine) of the credit hours for a minor must be distinct from any hours the student counts toward a major within the same department or school. A department or school seeking an exception must provide convincing evidence that the resulting major/minor combination confers breadth of knowledge that meaningfully exceeds what the major alone would provide. This policy applies to both first and second majors and minors.

Note: Students completing requirements for two majors concurrently are eligible to receive only one degree. The degree awarded is based on the degree corresponding to the primary major. One diploma is issued to the student upon completion of both majors and all other degree requirements.

- L. **Disciplinary Hold:** A student may not graduate with a disciplinary hold on his or her record.

The General Education requirements were amended as follows:

Students must comply with the following requirements:

- Complete the General Education Program through completion of at least 14 courses (42 semester hours) as designated in the program description.
- Depending on the major, a student may be exempted from one General Education category (maximum of one course) because of disciplinary expertise gained in the major as listed in the Undergraduate Catalog. Students in certain disciplinary programs are afforded additional flexibility in meeting General Education requirements.



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