HEALTH SCIENCES (HSC)  522

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Chairperson: Chris Grieshaber

General Department Information

Honors in Health Sciences
The Department offers honors study to qualified students who will pursue an individualized course of study. To qualify, students must be declared majors in the Department, have completed 30 hours of credit, and have and maintain a minimum cumulative 3.50 GPA; and have and maintain a 3.50 GPA in the major. To graduate with Departmental Honors, students must be a member of the University Honors Program and complete 12 credit hours of honors work in Health Sciences courses selected from at least two of the following options: Honors Undergraduate Research, Honors Independent Study, in-course Honors, or Honors Undergraduate Teaching Assistant. Students interested in the Honors Program must contact the departmental advisor to complete an orientation and planning meeting. Further details about the University Honors program are available at: Honors.IllinoisState.edu.

Minor in Health and Wellness Coaching
The Minor in Health and Wellness Coaching provides students with a foundation in coaching knowledge and skills and will complement studies in various majors. Students who aspire to work with people one-on-one and to help them reach their health goals may be particularly interested in this minor. Completion of the minor will prepare students for health and wellness coaching certifications and advanced study.

Standards for Progress in the Minor:
Students must maintain a minimum cumulative GPA of 2.50 to progress in the minor.
   - A grade of C or better must be achieved in all courses in the minor
   - 21 hours required
   - Required courses:
     - FCS 102
     - HSC 207, 296, 298A04, 377
     - KNR 113, 303
   - No more than 9 hours taken in the minor may count toward a major program of study.

Note: Other courses approved by the director of the minor may be counted toward the minor.

Minor in Public Health
The Minor in Public Health is designed to prepare students in core competencies needed by professionals working on population-based health issues. Public health professionals work to improve the quality and length of life in diverse communities by preventing health problems before they occur. They do this through supporting healthy environments, promoting the adoption of healthy lifestyles, preventing injuries, and preserving and protecting important resources that support human health. Public health is an interdisciplinary field built upon knowledge in environmental health, health behavior/promotion, epidemiology, medicine and other areas of study. This minor provides students with a foundation in key public health courses and, in combination with various majors, can create opportunities for employment in public health settings and graduate study in a Master of Public Health program or other health disciplines.

New and Internal Transfer Requirements: Admission to this academic program is limited and is based on space availability and the competitiveness of the applicant pool. Factors that may be considered include, but are not limited to: courses completed, cumulative GPA, hours completed, personal interview or written statement, and samples of work completed. For additional information on minimum requirements for admission and the application and selection process, visit IllinoisState.edu/Majors or contact the undergraduate advisor for the intended program.

Standards for Progress in the Minor: Students must maintain a minimum cumulative GPA of 2.50 to progress in the minor.
   - 21 hours required
   - Required core courses (15 hours):
     - HSC 156, 170, 204A01 or 204A02, 258A01 or 258A02, 296
   - Choose 2 courses (6 hours) from the following:
     - HSC 208, 248, 378, 390, 394
   - Required and elective courses must be completed with a grade of C or better
   - No more than 9 hours taken in the minor may count toward a major program of study within the Department of Health Sciences

Note: Other courses approved by the director of the minor may be counted toward the minor.

Environmental Health Programs
https://HealthSciences.IllinoisState.edu/environmental

Degree Offered: B.S.

Environmental Health specialists identify and resolve problems that occur when humans interact with their environment. Some of these environmental problems include indoor and outdoor air pollution, water pollution, food contamination, hazardous wastes, insect-borne diseases, occupational hazards, and chemical or biological terrorism. Environmental Health specialists identify, implement, and evaluate the best methods of controlling or preventing these problems. Employment opportunities include private consulting firms; industry; non-profit organizations; and local, state, or federal agencies.

New Freshmen, New and Internal Transfer Admission Requirements: Admission to this academic program is limited and is based on space availability and the competitiveness of the applicant pool. Factors that may be considered include, but are not limited to: courses completed, cumulative GPA, hours completed, personal interview or written statement, and samples of work completed. For additional information on minimum requirements for admission and the application and selection process, visit IllinoisState.edu/Majors or contact the undergraduate advisor for
the intended major.

Internal transfer students must have a minimum cumulative GPA of 2.00 and should schedule an appointment with the departmental academic advisor for information.

Standards for Progress in the Major: Students must maintain a cumulative GPA of 2.00 or higher and earn grades of C or better in all Health Sciences courses to be retained in the major.

Accreditation: The Environmental Health program is accredited by the National Environmental Health Science and Protection Accreditation Council, www.ehacoffice.org.

Minors in Environmental Health

- 30 total hours required
- 15 hours in Health Sciences required
- Required courses (9 hours):
  - HSC 145, 156, 249 or 258A01
- Elective courses (6 hours):
  - HSC 248, 249 (if not used to satisfy other requirements), 252, 254, 257, 258A01 (if not used to satisfy other requirements), 322, 350
- Required courses outside of Health Sciences: (a minimum of 15 hours):
  - CHE 140, 141
  - MAT 120 or 145

NOTE: The prerequisites for HSC 249 are CHE 220 and KNR 182; the prerequisites for HSC 258A01 are BSC 160 or 260.

Health Promotion and Education Program
https://HealthSciences.IllinoisState.edu/education

Degrees Offered: B.S., B.S. in Ed.

Health Promotion Specialists and Health Educators work with people in schools and community settings. They promote positive health behaviors by giving presentations, planning and implementing programs, preparing instructional materials, assessing community and individual health needs, teaching and training, coordinating community/school efforts, health coaching, advocating for healthy policies, leading coalitions, and acting as a resource person. Every Health Promotion and Education major completes a core of 12 hours and either a sequence in School Health Education or Community Health Promotion.

New Freshmen, New and Internal Transfer Admission Requirements: New freshmen and transfer students desiring admission to the Health Promotion and Education (HPE) program must meet the admission requirements established by the University. Those students wishing to be admitted into the School Health Education sequence of HPE must apply for and be admitted into the University Professional Studies program. (See the University-Wide Teacher Education section in this Undergraduate Catalog.) Students currently enrolled at the University who wish to change their major to HPE must have a minimum cumulative GPA of 2.50, though this minimum GPA does not guarantee admission. Transfer students and internal transfer students should schedule an appointment with the departmental academic advisor for information.

Standards for Progress in the Major: School Health Education Sequence: All students should have a projected program plan completed in consultation with the departmental academic advisor. A minimum cumulative and major GPA of 2.50 is required for admission to Student Teaching as well as for retention in the HPE major. Admission to Professional Studies is contingent upon meeting admission requirements to University-wide Teacher Education and recommendation of the HPE faculty and the School Health Education Coordinator.

Community Health Promotion Sequence: All students should have a projected program plan completed in consultation with the departmental academic advisor. A minimum cumulative and major GPA of 2.50 and grades of C or better in all 60 credit hours required by the major are required for retention in the Community Health Promotion program as well as for enrollment in Professional Practice, HSC 398A02.

Clinical Experiences in Teacher Education

A variety of clinical (pre-student teaching) experiences, as well as student teaching, are included in the teacher candidates professional preparation. Observations, small and large group instruction, tutoring, field experiences, and student teaching are included in the Clinical Experiences Program. The experiences offered prior to student teaching are integral parts of specific college courses. Clinical experiences are provided in off-campus professional development schools, local schools, campus laboratory schools, agencies and other approved non-school settings. The Cecilia J. Lauby Teacher Education Center monitors and documents all clinical experiences. Teacher candidates will show verification of having completed clinical experiences commensurate with attaining local, state, and national standards. Teacher candidates must provide their own transportation to clinical experience sites. Candidates are required to provide documentation of meeting all State of Illinois, district, and university requirements in regard to criminal background checks BEFORE beginning any clinical experiences. Criminal background checks must remain current as of the last day of the clinical experience. Candidates should consult with clinical course faculty and the Cecilia J. Lauby Teacher Education Center well in advance of clinical experiences. The approximate number of clinical hours associated with each course offering can be found with the appropriate course description in this Undergraduate Catalog. The following legend relates to the type and kind of activity related to a specific course.

Clinical Experiences Legend

- Observation (including field trips)
- Tutoring one-on-one contact
- Non-instructional assisting
- Small group instruction
- Whole class instruction
- Work with clinic client(s)
- Graduate practicum
- Professional meeting

Accreditation

The School Health and Promotion Education curriculum is accredited by the National Council for Accreditation of Teacher Education (NCATE). The Community Health Promotion curriculum
has been approved through combined review of two professional organizations.

**Major in Health Promotion and Education**

**School Health Education Sequence**
This sequence is part of the program leading to a 9-12 secondary endorsement.

**Community Health Promotion Sequence**

**Health Information Management Program**
https://HealthScience.IllinoisState.edu/info-management
Degree Offered: B.S.

Health information managers are professionals responsible for the management of health data and health information systems in health care organizations and organizations that use health data. They ensure data quality; code and classify data; maintain data security and privacy; design, implement and manage health information systems (both manual and electronic); evaluate medical care data to monitor quality and risk; and manage support personnel.

**Major in Health Information Management**
The Health Information Management (HIM) major program offers two sequences to students who are seeking to earn a Bachelor of Science degree in Health Information Management. The sequences are the HIM On-Campus Sequence and the RHIT-HIM Online Sequence.

**HIM On-Campus Sequence**
This sequence is designed for and restricted to students who are taking HIM courses on campus.

**New Freshmen, New and Internal Transfer Admission Requirements:** Admission to this academic program is limited and is based on space availability and the competitiveness of the applicant pool. Factors that may be considered for admission include, but are not limited to: courses completed, cumulative GPA, and hours completed. For additional information on minimum requirements for admission and applications selection process, visit IllinoisState.edu/Majors or contact the undergraduate advisor for the intended major.

**Retention in the HIM On-Campus Sequence**
To be retained in the HIM major a student must:
- Be in good academic standing in the University with a minimum cumulative 2.25 GPA
- Have a grade of C or better in the following courses, or their equivalents, to enroll in the HIM professional courses: HSC 105 and KNR 181 and 182
- Earn grades of C or better in all major courses

**RHIT-HIM Online Sequence**
This sequence is designed for and restricted to students who have completed an associate degree program in health information technology (HIT) and are currently certified as Registered Health Information Technicians (RHIT). The Sequence is designed to give these students an opportunity to earn a Bachelor of Science Degree in Health Information Management in six semesters. All HIM courses will be delivered online via distance learning. Students will be expected to complete one course each semester.

**Admission and Retention in the RHIT-HIM Online Sequence:** To be admitted and retained in the RHIT-HIM Online Sequence, a student must:
- Be admitted to Illinois State University
- Be a graduate of an associate degree program in health information technology accredited by the Commission on the Accreditation of Health Informatics and Information Management Education (CAHIIM)
- Be currently certified as a Registered Health Information Technician
- Complete the Associate Degree in Arts (A.A.) or an Associate Degree in Science (A.S.) or the Illinois Transferable General Education Core Curriculum
- Maintain a minimum cumulative 2.25 GPA for retention in the HIM major
- Earn grades of C or better in all HIM major courses.

**Course Requirements in the RHIT-HIM Online Sequence**
A grade of C or better is required in all HIM courses for retention in the major.

Health information technology courses are held as Proficiency Credit for the student until successful completion of three consecutive semesters of Health Information Management upper-division courses from: HSC 326, 327, 328, 329, or 330. Once these courses have been successfully completed with a grade of C or better through enrollment, thirty-three (33) credit hours are placed on the student’s transcript as Proficiency Credit for the following Health Information Management courses: HSC 105, 201, 202, 204, 210, 212, 213, 230, and 298A03; KNR 181 and KNR 182.

**Accreditation and Credentialing:** The HIM Program is accredited by the Commission on Accreditation of Health Informatics and Information Management (www.cahipm.org). Graduates of the program are eligible and expected to write the national registry examination. Successful completion of the registry examination leads to the Registered Health Information Administrator (RHIA) professional designation.

**Criminal Background Check:** All Health Information Management students enrolling in HSC 298A03 and HSC 398A03 are required to pass a criminal background check. The complete policy is outlined in the Health Information Management Student Handbook.

**Medical Laboratory Science Program**
https://HealthSciences.IllinoisState.edu/lab-science
Degree Offered: B.S.

Medical laboratory scientists work as a part of the medical team. They analyze body fluids and perform tests using highly specialized equipment to diagnose diseases and monitor treatment. They are largely employed in hospitals and private clinical laboratories and industry. Graduates of the program are eligible for national certification.
New Freshmen and New and Internal Transfer Admission Requirements: Admission to this academic program is limited and is based on space availability and the competitiveness of the applicant pool. Factors that may be considered include, but are not limited to: courses completed, cumulative GPA, hours completed, personal interview or written statement, and samples of work completed. For additional information on minimum requirements for admission and the application and selection process, visit IllinoisState.edu/Majors or contact the undergraduate advisor for the intended program.

Standards for Progress in the Major: MLS majors must earn grades of C or better in all courses required by the major, including prerequisites, and maintain a minimum cumulative GPA of 2.50 or better to be retained in the program.

Professional Practice in Medical Laboratory Science
Professional Practice is provided off-campus in clinical facilities affiliated with the University. The experience involves technical instruction in clinical hematology, chemistry, blood banking, microbiology and other aspects of laboratory medicine. Students are responsible to provide their own transportation and housing during the Professional Practice experience. Students apply for acceptance into the clinical experience during the spring of the junior year. Students must have maintained a cumulative 2.50 GPA and have received a grade of C or better in all required courses to be eligible for professional practice.

See the Medical Laboratory Science Student Handbook for more information and a current list of professional practice locations.

Criminal Background Check: All Medical Laboratory Science students entering Professional Practice are required to pass a criminal background check. The complete policy is outlined in the Medical Laboratory Science Student Handbook.

Immunizations: Evidence of immunity and/or proof of immunization against several viral agents is required for students entering professional practice. See the policy outlined in the Medical Laboratory Science Handbook for details.

Major in Medical Laboratory Science
A.A.S. to B.S. Degree:
Persons possessing an Applied Associate of Science degree in clinical (medical) laboratory technology from an Illinois community college may complete a B.S. through the Illinois Articulation Initiative. To qualify, students must be certified as a medical laboratory technician by the American Society for Clinical Pathology or by American Medical Technologists. Qualified students are awarded proficiency credit for some of the A.A.S. courses. Interested students should contact the Medical Laboratory Science program director for details.

Accreditation: The Medical Laboratory Science program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, www.nacls.org, 5600 N. River Road, Ste. 720, Rosemont, IL 60018, phone (773) 714-8880.

Safety Program
https://HealthSciences.IllinoisState.edu/safety
Degree Offered: B.S.

Safety professionals apply principles drawn from such disciplines as technology, the sciences, management, communication, health, and education to reduce the risk of harm to people, property and the environment. Safety professionals have the knowledge and skills to identify, evaluate, and cost-effectively control or prevent the hazards that can produce harm to people, property and the environment. Successful safety professionals are effective communicators with strong “people skills.” Safety professionals are employed in a variety of public and private sector assignments, including manufacturing, insurance, construction, government, and consulting.

New Freshmen, New and Internal Transfer Admission Requirements: Admission to this academic program is limited and is based on space availability and the competitiveness of the applicant pool. Factors that may be considered include, but are not limited to: courses completed, cumulative GPA, hours completed, personal interview or written statement, and samples of work completed. For additional information on minimum requirements for admission and the application and selection process, visit IllinoisState.edu/Majors or contact the undergraduate advisor for the intended program.

Students currently enrolled at Illinois State who wish to change their major to Safety must have a minimum GPA of 2.00. Students should see the department academic advisor for information.

Standards for Progress in the Major: Students must earn grades of C or better in Health Sciences courses required by the major and maintain a minimum cumulative GPA of 2.00 for retention in the program. All students should have a projected plan of study completed in consultation with the departmental academic advisor.


Major in Safety
Minor in Safety

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses: https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES
ENVIRONMENTAL HEALTH MAJOR (B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____   3   COM 110  Communication as Critical Inquiry
_____   3   ENG 101 or ENG 101A10  Composition as Critical Inquiry

Mathematics (1 course required)
_____   4   MAT 120  Finite Mathematics or MAT 145 Calculus I

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.
_____   4   CHE 140  General Chemistry I
_____   4/5  PHY 105 Fundamentals of Physics OR PHY 108 College Physics I

United States Traditions (1 course required)
_____   ___  ______________________________________________

Individuals & Civic Life (1 course required)
_____   ___  ______________________________________________

Fine Arts (1 course/3 credit hours required)***
_____   ___  ______________________________________________

Humanities (1 course required)***
_____   ___  ______________________________________________

Language in the Humanities (1 course required)***
_____   ___  ______________________________________________

Quantitative Reasoning (1 course required)
Exempt for Environmental Health majors

Science, Math, & Technology (1 course required)
_____   3   HSC 156  Environmental Health in the 21st Century

Social Sciences (1 course required)***
_____   ___  ______________________________________________

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
_____   4   CHE 141  General Chemistry II

Major (min. 77 credit hours)

_____   3   HSC 145  Environmental Health Practice
_____   3   HSC 156  Environmental Health in the 21st Century
_____   3   HSC 204A02† Health Data Analysis: Environmental Health & Health Information Management
_____   3   HSC 249  Environmental Toxicology (P: MAT 120 or 145; CHE 140, 141, and 220 or conc. reg.; HSC 145; KNR 182)
_____   3   HSC 258A01  Epidemiology for Environmental Health (P: HSC 145 and 204A02; MAT 119; BSC 160 or 260 or conc. reg.)
_____   3   HSC 355  Environmental Health Decision Processes (P: HSC 145 and 156; 90+ earned hours)
_____   9   HSC 398A01  Professional Practice: Environmental Health Internship (P: consent of program director)
_____   4   BSC 160  Microbiology & Society (P: COM 110; ENG 101; MAT 113, 120, 130, or 145)
_____   4   CHE 140  General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)
_____   4   CHE 141  General Chemistry II (P: CHE 140)
_____   5   CHE 220  Elementary Organic Chemistry (P: CHE 112 or 141)
_____   3   KNR 182  Human Anatomy & Physiology II
_____   1   KNR 184  Human Anatomy & Physiology Laboratory II (P: conc. reg. in KNR 182)
_____   3   MAT 119  College Algebra (P: CR for MAT 104 or placement)

Take 5 courses (15 credit hours) additional Group 1 electives:
Only two courses from HSC 271, 362, and 378 can be used for the major.
Please consult your academic advisor.

_____   ___  ______________________________________________
_____   ___  ______________________________________________
_____   ___  ______________________________________________
_____   ___  ______________________________________________

Take 1 additional course from Group 2 electives:
(CHE 215, 242, 280; ECO 255; GEO 102, 276, 336; HIS 240; HSC 381, 383)
Please consult your academic advisor.

_____   ___  ______________________________________________

Take 1 of the following courses:
_____   4   PHY 105  Fundamentals of Physics
_____   5   PHY 108  College Physics I

Take 1 of the following courses:
_____   4   MAT 120  Finite Mathematics
_____   4   MAT 145  Calculus I (P: C or better in MAT 144 or placement)

‡ Please consult with your academic advisor regarding standard substitutions for HSC 204.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES
ENVIRONMENTAL HEALTH MAJOR (B.S.)
Transfer Student

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
_____ 3 C2 900 COM 110 Communication as Critical Inquiry
_____ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
_____ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options
_____ 4 M1 906 MAT 120 Finite Math or M1 900-1 MAT 145 Calculus I

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
_____ 4 P1 902L CHE 140 General Chemistry I or P1 900L PHY 105 Fundamentals of Physics or PHY 108 College Physics I

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
_____ 4 CHE 141 General Chemistry II

Major (min. 77 credit hours)

Take 5 courses (15 credit hours) additional Group 1 electives:
Only two courses from HSC 271, 362, and 378 can be used for the major. Please consult your academic advisor.

Take 1 additional course from Group 2 electives:
(CHE 215, 242, 280; ECO 255; GEO 102, 276, 336; HIS 240; HSC 381, 383)
Please consult your academic advisor.

Take 1 of the following courses:
_____ 4 PHY 105 Fundamentals of Physics
_____ 5 PHY 108 College Physics I

Take 1 of the following courses:
_____ 4 MAT 120 Finite Mathematics
_____ 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

‡ Please consult with your academic advisor regarding standard substitutions for HSC 204.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES

MAJOR IN HEALTH PROMOTION AND EDUCATION

SCHOOL HEALTH EDUCATION SEQUENCE (B.S.)

This sequence is part of the program leading to a 9-12 secondary endorsement.

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____  3   COM 110  Communication as Critical Inquiry
_____  3   ENG 101 or ENG 101A01  Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)
Exempt for Health Promotion and Education majors

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)***
_____  3   PSY 110  Fundamentals of Psychology

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

Major (59 credit hours)

HSC requirements (30 credit hours)

Professional Education requirements (26 credit hours)

Requirements outside of HSC (3 credit hours)

Take one additional School Health Education elective:
(FCS 102; HSC 105, 156, 170, 207) Please consult with your academic advisor

Take one of the following courses (P: 45+ earned hours):

‡ Admission to Professional Studies required

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
### Heath Sciences

#### Major in Health Promotion and Education

**School Health Education Sequence**  
(B.S.) - Transfer Students  
This sequence is part of the program leading to a 9-12 secondary endorsement.

#### Illinois Articulation Initiative (min. 37 credit hours)

To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

#### Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
- 3 C2 900 COM 110 Communication as Critical Inquiry
- 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
- 3 C1 901 ENG 145 Writing in the Academic Disciplines

#### Mathematics (1 course required)
Please see major requirements for mathematics options

#### Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

#### Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

#### Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented
- 3 S6 900 PSY 110 Fundamentals of Psychology

#### Additional Graduation Requirements
- /120 minimum total credit hours
- /42 minimum senior college hours

#### AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

#### B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

### Major (59 credit hours)

#### HSC requirements (30 credit hours)

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>3</td>
<td>HSC 190 Foundations of Health Education</td>
</tr>
<tr>
<td>3</td>
<td>HSC 290A02 Strategies in Health Education: School Health (P: HSC 190)</td>
</tr>
<tr>
<td>3</td>
<td>HSC 292 Community Public Health</td>
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<tr>
<td>3</td>
<td>HSC 293 Principles of Human Disease</td>
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<tr>
<td>3</td>
<td>HSC 294 Diseases of the Human Body</td>
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<tr>
<td>3</td>
<td>HSC 296 Health Behavior &amp; Theory (P: 45+ earned hours)</td>
</tr>
<tr>
<td>3</td>
<td>HSC 387 Programs in School Health (P: HSC 290A02)</td>
</tr>
<tr>
<td>3</td>
<td>HSC 390 Drugs in Society (P: 45+ earned hours)</td>
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<tr>
<td>3</td>
<td>HSC 391 Curriculum &amp; Evaluation in School Health‡ (P: HSC 290A02)</td>
</tr>
</tbody>
</table>

#### Take one additional School Health Education elective:
(FCS 102; HSC 105, 156, 170, 207) Please consult with your academic advisor

#### Requirements outside of HSC

<table>
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<tr>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>SOC 123 Human Sexuality</td>
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#### Professional Education requirements (26 credit hours)

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>3</td>
<td>PSY 215 Educational Psychology (P: PSY 110 or 111)</td>
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<tr>
<td>2</td>
<td>TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major &amp; cum. GPA; ENG 101, COM 110)</td>
</tr>
<tr>
<td>3</td>
<td>TCH 216 Principles &amp; Practices for Teaching &amp; Learning in Secondary Schools (P: TCH 212; 2.5 major &amp; cum. GPA)</td>
</tr>
<tr>
<td>3</td>
<td>TCH 219 Integrating Multiple Literacies &amp; Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major &amp; cum. GPA)</td>
</tr>
<tr>
<td>12</td>
<td>STT 399A35 Student Teaching in Health Education</td>
</tr>
</tbody>
</table>

#### Take one of the following courses (P: 45+ earned hours):

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>3</td>
<td>EAF 228 Social Foundations</td>
</tr>
<tr>
<td>3</td>
<td>EAF 231 Introduction to Philosophy of Education</td>
</tr>
<tr>
<td>3</td>
<td>EAF 235 Historical Foundations</td>
</tr>
</tbody>
</table>

‡ Admission to Professional Studies required

#### Health Sciences Courses:

https://coursefinder.illinoisstate.edu/directory/hsc/

#### All Courses:

https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES
MAJOR IN HEALTH PROMOTION AND EDUCATION
COMMUNITY HEALTH PROMOTION SEQUENCE (B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____ 3  COM 110 Communication as Critical Inquiry
_____ 3  ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)
Exempt for Health Promotion and Education majors

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)***
Please see major requirements for social science options.

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
_____ 3  BSC 145 Human Biology

Major (60 credit hours)
_____ 3  HSC 204A01 Health Data Analysis: Health Education
_____ 3  HSC 207 Mind/Body Health
_____ 3  HSC 258A02 Epidemiology for Public Health (P: HSC 204A01 or 204A02)
_____ 3  HSC 286 Needs Assessment in Health Education
_____ 3  HSC 290A01 Strategies in Health Education: Community Health
_____ 3  HSC 292 Community Public Health
_____ 3  HSC 293 Principles of Human Disease
_____ 3  HSC 294 Diseases of the Human Body
_____ 3  HSC 296 Health Behavior & Theory (P: 45+ earned hours)
_____ 3  HSC 305 Public Health Leadership (P: HSC 292)
_____ 3  HSC 395 Health Communication & Social Marketing (P: C or better in HSC 286 and 290A01 or 290A02)
_____ 3  HSC 396 Health Education Program Planning & Evaluation (P: C or better in HSC 286 and 290A01 or 290A02)
_____ 9  HSC 398A02* Professional Practice: Internship in Health Education (P: 2.5 major & cumulative GPA; HSC 395 and 396)
_____ 3  BSC 145 Human Biology (P: COM 110; ENG 101; MAT 113, 120, 130, or 145)

Take 4 (12 credit hours) additional Community Health Promotion electives:
(FCS 102; HSC 105, 156, 170, 377, 387, 390, 394; SOC 123)
Please consult with your academic advisor

*2.50 cumulative and major GPA prior to the semester of enrollment in HSC 398A02

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES
MAJOR IN HEALTH PROMOTION AND EDUCATION
COMMUNITY HEALTH PROMOTION SEQUENCE
(B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>C2 900 COM 110 Communication as Critical Inquiry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 901 ENG 145 Writing in the Academic Disciplines</td>
<td>3</td>
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</tbody>
</table>

Mathematics (1 course required)
Please see major requirements for mathematics options

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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</table>

Additional Graduation Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total credit hours</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Senior college hours</td>
<td>42</td>
<td></td>
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</tbody>
</table>

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 145 Human Biology</td>
<td>3</td>
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</tbody>
</table>

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/
HEALTH SCIENCES

HEALTH INFORMATION MANAGEMENT MAJOR

ON CAMPUS SEQUENCE (B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____ 3 COM 110 Communication as Critical Inquiry
_____ 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)

Science, Math, & Technology (1 course required)
Exempt for Health Information Management majors

Social Sciences (1 course required)***

Additional Graduation Requirements

/120 minimum total credit hours
/42 minimum senior college hours

AMALI requirement
*** Certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

Major (71 credit hours)

3 HSC 105 Medical Terminology
3 HSC 201 Pathophysiology I (P: HSC 105; KNR 181 & 182; 2.25 GPA)
3 HSC 202 Pathophysiology II (P: HSC 201)
3 HSC 204A02 Health Data Analysis: Environmental Health and Health Info Management†
3 HSC 210 Introduction to Health Information Management (P: HSC 105; KNR 181 and 182)
3 HSC 212 Introduction to Health Data Classification Systems (P: HSC 201 and 210)
3 HSC 213 Advanced Applications of Health Data Classifications (P: HSC 202, 212, and 298A03)
3 HSC 230 Legal Aspects of Health Information & Risk Management (P: HSC 105 and 210)
3 HSC 298A03 PP: Health Information Management: Clinical Internship (P: C or better in HSC 202, 212, and 230; consent of program director)
3 HSC 300 Health Information Data Analysis (P: HSC 298A03)
1 HSC 310 Health Information Management Seminar (P: HSC 213, 298A03, and 345)
3 HSC 320 Organization & Management of Health Information Services (P: HSC 230, 298A03, 345, and 346)
3 HSC 341 Health Data Governance (P: HSC 202, 204, 210, 212, 230, 298A03)
3 HSC 345 Quality Management in Healthcare (P: HSC 204, 210, 212, and 298A03)
3 HSC 346 Healthcare Finance (P: HSC 212 and 298A03)
3 HSC 398A03 PP: Health Information Management: Management Internship (P: C or better in all major courses; consent of program director; proof of health & professional liability insurance)
4 IT 168* Structured Problem Solving Using the Computer (P: MAT 104)
3 IT 178 Computer Application Programming (P: C or better in IT 168 or 177)
3 IT 250 Fundamentals of Information Assurance & Security (P: C or better in IT 178, 276)
3 IT 254 Hardware & Software Concepts (P: C or better in IT 168)
3 IT 261 Systems Development I (P: C or better in IT 178, 179, or 277; C or better in IT 254 or 225 or conc. reg.)
3 IT 262 Information Technology Project Management (P: IT 261 or conc. reg.)
3 KNR 181 Human Anatomy & Physiology I
3 KNR 182 Human Anatomy & Physiology II

† General Education courses MQM 100 or ECO 138 or PSY 138 may be substituted for HSC 204A02

*IT 164 and MAT 119 are highly recommended prior to IT 168.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES

HEALTH INFORMATION MANAGEMENT MAJOR

ON CAMPUS SEQUENCE (B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
____  3  C2 900  COM 110  Communication as Critical Inquiry
____  3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
____  3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements

120 minimum total credit hours
42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
____  4  HSC 201  Pathophysiology I

Major (71 credit hours)

3  HSC 105  Medical Terminology
3  HSC 201  Pathophysiology I (P: HSC 105; KNR 181 & 182; 2.25 GPA)
3  HSC 202  Pathophysiology II (P: HSC 201)
3  HSC 204A02  Health Data Analysis: Environmental Health and Health Info Management†
3  HSC 210  Introduction to Health Information Management (P: HSC 105; KNR 181 and 182)
3  HSC 212  Introduction to Medical Coding For Reimbursement and Utilization Management (P: HSC 201 and 210)
3  HSC 213  Hospital Inpatient Classification and Reimbursement Processes (P: HSC 202, 212, and 298A03)
3  HSC 230  Legal Aspects of Health Information & Risk Management (P: HSC 105 and 210)
3  HSC 298A03  PP: Health Information Management: Clinical Internship (P: C or better in HSC 202, 212, and 230; consent of program director)
3  HSC 300  Health Information Data Analysis (P: HSC 298A03)
1  HSC 310  Health Information Management Seminar (P: HSC 213, 298A03, and 345)
3  HSC 320  Organization & Management of Health Information Services (P: HSC 230, 298A03, 345, and 346)
3  HSC 341  Health Data Governance (P: HSC 202, 204, 210, 212, 230, 298A03)
3  HSC 345  Quality Management in Healthcare (P: HSC 204, 210, 212, and 298A03)
3  HSC 346  Healthcare Finance (P: HSC 212 and 298A03)
3  HSC 398A03  PP: Health Information Management: Management Internship (P: C or better in all major courses; consent of program director; proof of health & professional liability insurance)
4  IT 168  Structured Problem Solving Using the Computer (P: MAT 104)
3  IT 178  Computer Application Programming (P: C or better in IT 168 or 177)
3  IT 250  Fundamentals of Information Assurance & Security (P: C or better in IT 178, 276)
3  IT 254  Hardware & Software Concepts (P: C or better in IT 168)
3  IT 261  Systems Development I (P: C or better in IT 178, 179, or 277; C or better in IT 254 or 225 or conc. reg.)
3  IT 262  Information Technology Project Management (P: IT 261 or conc. reg.)
3  KNR 181  Human Anatomy & Physiology I
3  KNR 182  Human Anatomy & Physiology II

† Please consult with your academic advisor regarding standard substitutions for HSC 204A02.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
# HEALTH SCIENCES

## HEALTH INFORMATION MANAGEMENT MAJOR

### RHIT-HIM ONLINE (B.S.)

<table>
<thead>
<tr>
<th>General Education (39 credit hours)</th>
<th>Health Sciences Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.</td>
<td>See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication and Composition (2 courses required)</th>
<th>All Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 COM 110 Communication as Critical Inquiry</td>
<td><a href="https://coursefinder.illinoisstate.edu/directory/hsc/">https://coursefinder.illinoisstate.edu/directory/hsc/</a></td>
</tr>
<tr>
<td>3 ENG 101 or ENG 101A10 Composition as Critical Inquiry</td>
<td><a href="https://coursefinder.illinoisstate.edu/directory/">https://coursefinder.illinoisstate.edu/directory/</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics (1 course required)</th>
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<table>
<thead>
<tr>
<th>Natural Science/Natural Science Alternatives (2 courses required)</th>
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<tbody>
<tr>
<td>Students must complete 1 course from 2 different sciences.</td>
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<table>
<thead>
<tr>
<th>United States Traditions (1 course required)</th>
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<tr>
<th>Individuals &amp; Civic Life (1 course required)</th>
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| Fine Arts (1 course/3 credit hours required)*** | |
|                                               | --- |

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<thead>
<tr>
<th>Humanities (1 course required)***</th>
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| Language in the Humanities (1 course required)*** | |
|                                                  | --- |

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<thead>
<tr>
<th>Quantitative Reasoning (1 course required)</th>
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| Science, Math, & Technology (1 course required) | |
|                                               | --- |

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<tr>
<th>Social Sciences (1 course required)***</th>
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<table>
<thead>
<tr>
<th>Additional Graduation Requirements</th>
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<table>
<thead>
<tr>
<th>Major (71 credit hours)</th>
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</thead>
<tbody>
<tr>
<td>6 HSC 326</td>
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<tr>
<td>6 HSC 327</td>
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<tr>
<td>6 HSC 328</td>
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<tr>
<td>6 HSC 329</td>
<td>---</td>
</tr>
<tr>
<td>6 HSC 330</td>
<td>---</td>
</tr>
<tr>
<td>3 HSC 398A05 (3 hours)</td>
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</tr>
<tr>
<td>33 semester hours earned as Proficiency Credit</td>
<td></td>
</tr>
</tbody>
</table>

Health Information Technology courses are held as Proficiency Credit for the student until successful completion of three consecutive semesters of Health Information Management upper division courses from: HSC 326, 327, 328, 329, or 330. Once these courses have been completed with a grade of C or better through enrollment, thirty-three (33) credit hours are placed on the student’s transcript as Proficiency Credit for the following Health Information Management courses: HSC 105, 201, 202, 204, 210, 212, 213, 230, and 298A03; KNR 181 and KNR 182.

A grade of C or better is required in all HIM courses for retention in the major.

### Additional Graduation Requirements

<table>
<thead>
<tr>
<th>120 minimum total credit hours</th>
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<table>
<thead>
<tr>
<th>42 minimum senior college hours</th>
<th></th>
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</thead>
</table>

**AMALI requirement**

***Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.***

<table>
<thead>
<tr>
<th>B.S. Science, Math, &amp; Technology (1 course required)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.</td>
<td>---</td>
</tr>
<tr>
<td>4 HSC 201 Pathophysiology I</td>
<td>---</td>
</tr>
</tbody>
</table>
HEALTH SCIENCES
HEALTH INFORMATION MANAGEMENT MAJOR

RHIT-HIM ONLINE (B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
_____  3  C2 900  COM 110  Communication as Critical Inquiry
_____  3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
_____  3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements

Major (71 credit hours)

6  HSC 326
6  HSC 327
6  HSC 328
6  HSC 329
6  HSC 330
3  HSC 398A05 (3 hours)

33 semester hours earned as Proficiency Credit
Health information technology courses are held as Proficiency Credit for the student until successful completion of three consecutive semesters of Health Information Management upper division courses from: HSC 326, 327, 328, 329, or 330. Once these courses have been completed with a grade of C or better through enrollment, thirty-three (33) credit hours are placed on the student’s transcript as Proficiency Credit for the following Health Information Management courses: HSC 105, 201, 202, 204, 210, 212, 213, 230, and 298A03; KNR 181 and KNR 182.

A grade of C or better is required in all HIM courses for retention in the major.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
HEALTH SCIENCES

MEDICAL LABORATORY SCIENCE MAJOR (B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
   — 3 COM 110 Communication as Critical Inquiry
   — 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)
   — 4 MAT 120 Finite Mathematics or MAT 145 Calculus I

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.
   — 4 CHE 140 General Chemistry I
   — 4 BSC 197 Molecular & Cellular Basis of Life

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)

Science, Math, & Technology (1 course required)
Exempt for Medical Laboratory Sciences majors

Social Sciences (1 course required)***

Additional Graduation Requirements

—/120 minimum total credit hours
—/42 minimum senior college hours

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
   — 4 CHE 141 General Chemistry II

Major (min. 82 credit hours)

— 3 HSC 260 Introduction to Clinical Immunohematology (P: HSC 261, 262, and 263; 45+ earned hours)
— 4 HSC 261 Introduction to Clinical Hematology (P: BSC 197; CHE 140 and 141; conc. reg. in HSC 262 and 263; 45+ earned hours)
— 4 HSC 262 Introduction to Clinical Chemistry (P: BSC 197; CHE 140 and 141; conc. reg. in HSC 261 and 263; 45+ earned hours)
— 3 HSC 263 Introduction to Clinical Immunology (P: BSC 197; CHE 140 and 141; conc. reg. in HSC 261 and 262; 45+ earned hours)
— 2 HSC 301 Introduction to Coagulation & Hemostasis (P: C or better in HSC 261)
— 3 HSC 302 Introduction to Clinical Biology (P: HSC 262)
— 4 HSC 308 Introduction to Clinical Microbiology (P: BSC 160 or 260; HSC 263)
— 3 HSC 312 Clinical Chemistry II (P: HSC 262; MAT 120, 144, or 145)
— 2 HSC 315 Clinical Parasitology & Mycology (P: HSC 308)
— 1 HSC 316 Medical Laboratory Science: Research Design (P: conc. reg. in HSC, 261, 262, and 263)
— 2 HSC 317 Clinical Hematology II (P: HSC 261 and 301)
— 2 HSC 318 Clinical Microbiology II (P: BSC 160 or 260; and HSC 308)
— 3 HSC 319 Clinical Immunohematology II (P: HSC 260)
— 2 HSC 325 Laboratory Education & Management (P: HSC 260, 261, and 262)
— 4 BSC 197 Molecular & Cellular Basis of Life
— 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)
— 4 CHE 141 General Chemistry II (P: CHE 140)
— 5 CHE 220 Elementary Organic Chemistry (P: CHE 112 or 141)

Take the following Professional Practice: Medical Lab Science courses:
(P: C or better in HSC 260, 261, 262, 263, 301, 302, & 308 within last 7 years)
   — 2 HSC 398A22 PP: Biochemistry
   — 1 HSC 398A23 PP: Serology
   — 1 HSC 398A24 PP: Urinalysis & Body Fluids
   — 2.5 HSC 398A27 PP: Hematology
   — 2.5 HSC 398A29 PP: Immunohematology

Take 1 of the following Professional Practice: Medical Lab Science courses:
   — 3 HSC 398A28 PP: Microbiology
   — 3 HSC 398A25 PP: Microbiology Simulation

Take 8 additional credit hours of Medical Laboratory Science electives:
(BSC 170, 181 (or KNR 181), 182, (or KNR 182), 196, 203, 219, 220, 283; CHE 215, 242, PHY 105, 108) Please consult your academic advisor.

Take 1 of the following courses:
   — 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)
   — 4 MAT 144 Precalculus (P: C or better in MAT 108 & 119 or placement)
   — 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

Take 1 of the following courses:
   — 4 BSC 160 Microbiology & Society (P: COM 110; ENG 101; MAT 113, 120, 130, or 145)
   — 4 BSC 260 Microbiology (P: BSC 196 and 197; CHE 220 or 230 and 231 or conc. reg.)

Strongly recommended courses: HSC 105 and 204A02

Note: This major may require more hours than indicated due to prerequisites or lack of prior skill.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses: https://coursefinder.illinoisstate.edu/directory/
ILET SCIENCE
MEDICAL LABORATORY SCIENCE MAJOR
Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

Mathematics (1 course required)
Please see major requirements for mathematics options

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements

Major (min. 82 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 260</td>
<td>Introduction to Clinical Immunohematology (P: HSC 261, 262, and 263; 45+ earned hours)</td>
</tr>
<tr>
<td>HSC 261</td>
<td>Introduction to Clinical Hematology (P: HSC 261 and 263; 45+ earned hours)</td>
</tr>
<tr>
<td>HSC 262</td>
<td>Introduction to Clinical Chemistry (P: HSC 197; CHE 140 and 141; conc. reg. in HSC 261 and 263; 45+ earned hours)</td>
</tr>
<tr>
<td>HSC 263</td>
<td>Introduction to Clinical Immunology (P: HSC 197; CHE 140 and 141; conc. reg. in HSC 261 and 263; 45+ earned hours)</td>
</tr>
<tr>
<td>HSC 301</td>
<td>Introduction to Coagulation &amp; Hemostasis (P: C or better in HSC 261)</td>
</tr>
<tr>
<td>HSC 302</td>
<td>Introduction to Clinical Biology (P: HSC 262)</td>
</tr>
<tr>
<td>HSC 308</td>
<td>Introduction to Clinical Microbiology (P: BSC 160 or 260; HSC 263)</td>
</tr>
<tr>
<td>HSC 312</td>
<td>Clinical Chemistry II (P: HSC 262; MAT 120, 144, or 145)</td>
</tr>
<tr>
<td>HSC 315</td>
<td>Clinical Parasitology &amp; Mycology (P: HSC 308)</td>
</tr>
<tr>
<td>HSC 316</td>
<td>Medical Laboratory Science: Research Design (P: Conc. reg. in HSC 261, 262, and 263)</td>
</tr>
<tr>
<td>HSC 317</td>
<td>Clinical Hematology II (P: HSC 261 and 301)</td>
</tr>
<tr>
<td>HSC 318</td>
<td>Clinical Microbiology II (P: BSC 160 or 260; and HSC 308)</td>
</tr>
<tr>
<td>HSC 319</td>
<td>Clinical Immunohematology II (P: HSC 260)</td>
</tr>
<tr>
<td>HSC 325</td>
<td>Laboratory Education &amp; Management (P: HSC 260, 261, and 262)</td>
</tr>
<tr>
<td>BSC 197</td>
<td>Molecular &amp; Cellular Basis of Life</td>
</tr>
<tr>
<td>CHE 140</td>
<td>General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)</td>
</tr>
<tr>
<td>CHE 141</td>
<td>General Chemistry II (P: CHE 112 or 141)</td>
</tr>
</tbody>
</table>

Take the following Professional Practice: Medical Lab Science courses:
(P: C or better in HSC 260, 261, 262, 263, 301, 302, & 308 within last 7 years)

Take 8 additional credit hours of Medical Laboratory Science electives:
BSC 170, 181, (or KNR 181), 182, (or KNR 182), 196, 203, 219, 220, 283; CHE 215, 242; PHY 105, 108

Please consult your academic advisor.

Take 1 of the following courses:

Take 1 of the following courses:

Note: This major may require more hours than indicated due to prerequisites or lack of prior skill.

Health Sciences Courses:
https://coursefinder.illinoisstate.edu/directory/hsc/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
**HEALTH SCIENCES**

**MAJOR IN SAFETY (B.S.)**

**General Education (39 credit hours)**
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

**Communication and Composition (2 courses required)**
- 3 COM 110 Communication as Critical Inquiry
- 3 ENG 101 or ENG 101A Communication as Critical Inquiry

**Mathematics (1 course required)**
- 4 MAT 120 Finite Mathematics

**Natural Science/Natural Science Alternatives (2 courses required)**
Students must complete 1 course from 2 different sciences.
- 4 CHE 140 General Chemistry I
- 4/5 PHY 105 Fundamentals of Physics OR PHY 108 College Physics I

**United States Traditions (1 course required)**
- ______________________________________________

**Individuals & Civic Life (1 course required)**
- ______________________________________________

**Fine Arts (1 course/3 credit hours required)***
- ______________________________________________

**Humanities (1 course required)***
- ______________________________________________

**Language in the Humanities (1 course required)***
- ______________________________________________

**Quantitative Reasoning (1 course required)**
Please see major requirements for quantitative reasoning options.
- ______________________________________________

**Science, Math, & Technology (1 course required)**
Exempt for Safety majors

**Social Sciences (1 course required)***
- 3 HSC 170 Safety & Society

**Additional Graduation Requirements**

- 120 minimum total credit hours
- 42 minimum senior college hours

**AMALI requirement**
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

**B.S. Science, Math, & Technology (1 course required)**
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
- 4 CHE 141 General Chemistry II

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**Major (min. of 77 credit hours)**

- 3 HSC 170 Safety & Society (P: COM 110 or ENG 101 or conc. reg.)
- 3 HSC 248 Occupational Health
- 3 HSC 271 Safety Technology
- 3 HSC 359 Industrial Hygiene (P: HSC 248; MAT 118, 120, or 145)
- 3 HSC 362 Ergonomics (P: MAT 120 or 145; PHY 105 or 108; HSC 204 or MQM 100 or ECO 138 or GEO 138 or POL 138 or PSY 138)
- 3 HSC 370 Safety Training Development (P: HSC 381)
- 3 HSC 372 Accident/Incident Investigation, Records, & Evaluation (P: HSC 381; MAT 120 or 145; PHY 105 or 108)
- 3 HSC 378 Disaster Preparedness (P: CHE 110 and 112 or CHE 140 or BSC 145)
- 3 HSC 380 Fire Protection & Prevention (P: HSC 381; PHY 105 or 108)
- 4 HSC 381 Occupational Safety & Health Act (P: HSC 170 and 271; CHE 140)
- 3 HSC 382 Improving Safety Performance (P: HSC 370 and 204A02 or MQM 100 or ECO 138 or GEO 138 or POL 138 or PSY 138)
- 3 HSC 385 System Safety (P: MQM 100 or ECO 138 or GEO 138 or POL 138 or PSY 138)
- 9 HSC 398A04 Professional Practice: Safety (P: HSC 359 and 381; 6 hours from HSC 272, 362, 370, 372, 378, 380, 382, 383, 384; minimum 2.0 major and cumulative GPA)
- 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)
- 4 CHE 141 General Chemistry II (P: CHE 140)
- 3 KNR 182 Human Anatomy & Physiology II
- 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)
- 3 TEC 130 Introduction to Manufacturing Processes

**Take 2 (6 credit hours) additional Safety electives:**
(HSC 272, 383, 384)
Please consult your academic advisor.
- ______________________________________________
- ______________________________________________

**Take 1 of the following courses:**
- 4 PHY 105 Fundamentals of Physics
- 5 PHY 108 College Physics I

**Take 1 of the following courses (P: MAT 120 or 145):**
- 3 GEO 138 Economic Reasoning Using Statistics
- 3 MQM 100 Statistical Reasoning
- 3 POL 138 Quantitative Reasoning in Political Science
- 3 PSY 138 Reasoning in Psychology Using Statistics

‡ HSC 204A02 may substitute for this requirement but it is not a General Education course.

**Recommended electives based on career goals (variable):**
BSC 160, CHE 220, ENG 145A13 or 249, FIL 250, HSC 145, 156, KNR 181, 282, 342**

**KNR 181, 182, and 282 are prerequisites for KNR 342**

**Health Sciences Courses:**
[https://coursefinder.illinoisstate.edu/directory/hsc/](https://coursefinder.illinoisstate.edu/directory/hsc/)

**All Courses:**
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HEALTH SCIENCES
MAJOR IN SAFETY
Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
___ 3 C2 900 COM 110 Communication as Critical Inquiry
___ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
___ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options
___ 4 M1 906 MAT 120 Finite Math or M1 900-1 MAT 145 Calculus I or M1 902 ECO 138 Economic Reasoning Using Statistics or M1 902 MQM 100 Statistical Reasoning

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
___ 4 P1 902L CHE 140 General Chemistry I or P1 900L PHY 105 Fundamentals of Physics

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements
___/120 minimum total credit hours
___/42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
___ 4 CHE 141 General Chemistry II

Major (77 credit hours)
___ 3 HSC 170 Safety & Society (P: COM 110 or ENG 101 or conc. reg.)
___ 3 HSC 248 Occupational Health
___ 3 HSC 271 Safety Technology
___ 3 HSC 359 Industrial Hygiene (P: HSC 248; MAT 118, 120, or 145)
___ 3 HSC 362 Ergonomics (P: MAT 120 or 145; PHY 105 or 108; HSC 204 or MQM 100 or GEO 138 or POL 138 or PSY 138)
___ 3 HSC 370 Safety Training Development (P: HSC 381)
___ 3 HSC 372 Accident/Incident Investigation, Records, & Evaluation (P: HSC 381; MAT 120 or 145; PHY 105 or 108)
___ 3 HSC 378 Disaster Preparedness (P: CHE 110 and 140 or CHE 140)
___ 3 HSC 380 Fire Protection & Prevention (P: HSC 381; PHY 105 or 108)
___ 4 HSC 381 Occupational Safety & Health Act (P: HSC 170 and 271; CHE 140)
___ 3 HSC 382 Improving Safety Performance (P: HSC 370 and 204A02 or MQM 100 or GEO 138 or POL 138 or PSY 138)
___ 3 HSC 385 System Safety (P: MQM 100 or GEO 138 or POL 138 or PSY 138)
___ 9 HSC 398A04 Professional Practice: Safety (P: HSC 359 and 381; 6 hours from HSC 272, 362, 370, 372, 378, 380, 382, 383, 384; minimum 2.0 major and cumulative GPA)
___ 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)
___ 4 CHE 141 General Chemistry II (P: CHE 140)
___ 3 KNR 182 Human Anatomy & Physiology II
___ 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)
___ 3 TEC 130 Introduction to Manufacturing Processes

Take 1 (6 credit hours) additional Safety electives:
(HSC 272, 383, 384)
Please consult your academic advisor.

Take 1 of the following courses:
___ 4 PHY 105 Fundamentals of Physics
___ 5 PHY 108 College Physics I

Take 1 of the following courses (P: MAT 120 or 145):
___ 3 ECO 138 Economic Reasoning Using Statistics
___ 3 GEO 138 Maps & Geographic Reasoning
___ 3 MQM 100 Statistical Reasoning
___ 3 POL 138 Quantitative Reasoning in Political Science
___ 3 PSY 138 Reasoning in Psychology Using Statistics

Recommended electives based on career goals (variable):
BSC 160, CHE 220, ENG 145A13 or 249, FIL 250, HSC 145, 156, KNR 181, 282, 342**

‡ HSC 204A02 may substitute for this requirement but it is not a General Education course.

Recommended electives based on career goals (variable):
BSC 160, CHE 220, ENG 145A13 or 249, FIL 250, HSC 145, 156, KNR 181, 282, 342**

**KNR 181, 182, and 282 are prerequisites for KNR 342

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All Courses:
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