General Education Bulletin.

Students must complete all General Education requirements and all Major requirements. Any acceptable General Education course which is also required in the major may apply to (double-count in) both required areas. Courses common to the areas of World Cultures, Arts and Humanities, and Social and Historical Studies may also double count. However, credit for such courses counts only once toward the total required credits for a degree.

General Education (20 – 39 credits)

(General Education Bulletin at: www.indiana.edu/~bulletin/iub)

English Composition (0 to 3 credits, C- minimum required)
Complete one of the following options:

- 3 CMLT-C 110 Writing the World
- 3 ENG-W 131 Elementary Composition
- 3 ENG-W 170 Projects in Reading and Writing
- 0 ENG-W 131 EX Elementary Composition Exemption

Mathematical Modeling (3 to 4 credits)
Complete one of the following options:

- 3 MATH-A 118 Finite Mathematics for the Soc and Behavior Sci
- 4 MATH-D 116 AND MATH-D 117 Intro to Finite Mathematics I-II
- 3 MATH-J 113 Introduction to Calculus with Applications
- 3 MATH-M 118 Finite Mathematics
- 3 MATH-M 119 Brief Survey of Calculus I
- 4 MATH-M 211 Calculus I
- 4 MATH-M 213 Accelerated Calculus
- 3 MATH-S 118 Honors Finite Mathematics
- 3 MATH-V 118 Finite and Consumer Mathematics
- 3 MATH-V 118 Finite Math for Social and Biological Sciences

Natural and Mathematical Sciences (5 credits)
Complete 5 credits from the list of approved N&M courses in the IUB General Education Bulletin. At least one course must be a natural science (as indicated by an asterisk in the GENED bulletin).

- 5 credits

Arts and Humanities (6 credits)
Complete 6 credits from the list of approved A&H courses in the IUB General Education Bulletin.

- 6 credits

Social and Historical Studies (6 credits)
Complete 6 credits from the list of approved S&H courses in the IUB General Education Bulletin.

- 6 credits

World Languages and Cultures (0 to 14 credits)

Choose one of the following three options:

- Complete 6 credits of world culture courses from the list of approved WC courses in the IUB General Education Bulletin.
- OR
- Achieve competency in a single foreign language equal to successful completion of the four semester sequence in a world language.
- OR
- Complete a 6-credit International experience in an approved study abroad. A list of approved course choices may be found in the IUB General Education Bulletin.

Major (91 credits)

Safety & Health Courses (48 credits, C- min req each course)

- 3 HPER-H 174 Prevention of Violence in American Society S&H
  OR HPER-S 255 Threats, Violence, and Workplace Safety
- 3 HPER-S 101 Introduction to Safety Science*
- 3 HPER-S 151 Legal Aspects of Safety**
- 3 HPER-S 201 Industrial Hygiene*
- 3 HPER-S 202 Fundamentals of Fire Protection**
- 3 HPER-S 210 OSHA General Industry Standards
- 3 HPER-S 214 OSHA Construction Standards *
- 3 HPER-S 251 Incident Investigation & Analysis **
- 3 HPER-S 332 Ergonomics (P/C: ANAT-A 215 or HPER-P 205) **
- 3 HPER-S 345 Safety Program Management *
  (P: 6 cr. of HPER-S courses or Instructor Approval)
- 3 HPER-S 410 Advcd Indust Hygiene *(P: HPER-S201 & CHEM-C102)
- 3 HPER-S 411 Industrial Hygiene Sampling & Analysis**
  (P: HPER-S 410)
- 3 HPER-S 415 Safety Education and Training * (P:
  6 cr. of HPER-S courses or Instructor Approval)
- 6 HPER-S 444 Field Exp in Occupational Safety (P: Safety majors only; junior/senior standing; consent of instructor)
- 3 SPEA-H 316 Environmental Science and Health

Additional Required Courses (28 credits)

- 3 CHEM-C 121 Elementary Chemistry N&M
- 2 CHEM-C 121 Elementary Chemistry Lab N&M
- 3 CHEM-C 102 Elementary Chemistry II N&M **
- 2 CHEM-C 122 Elementary Chemistry II Lab N&M **
- 3 ENG-W 231 Professional Writing Skills or BUS-X 204
- 3 HPER-S 391 Health Statistics or PSY-K 300 Stats
- 3 HPER-P 205 Structural Kines (may sub ANAT-A 215 N&M)
- 3 PSY-P 101 Intro to Psychology 1 N&M
- 3 PSY-P 102 Intro to Psychology 2 S&H (P:PSY-P 101 or 151)
- 3 SOC-S 100 Intro to Soc S&H OR SWK-S 100 Diversity

Professional Electives (15 credits from courses listed on reverse side. 12 credits must be at the 300/400 level. A minimum C- grade required for each course.)

Important Note: First aid certification is a requirement for safety professionals. If you are not certified in first aid through an agency outside IU, you must include HPER-H 160 First Aid and Emergency Care (3 cr.) in your professional electives.

- 15 credits

Professional Elective Choices are listed on the reverse side.
You may structure your professional electives to earn a minor in SPEA environmental management, business, or psychology.

* fall only  ** spring only

**Professional Electives (OTHERS OK w/ ADVISOR APPROVAL)**

Note: Choose professional electives from below, or decide if you want to minor in SPEA, Business or Psychology

**HPER** (See HPER Bulletin for course prerequisites)
- HPER-H 160 (take HPER-H160 if not certified in first aid),
- HPER-H 174 S&H (if not taken as a requirement),

**Labor Studies:** Students may include any LSTU courses as professional electives. LSTU-L 101, 110, and 230 are all S&H

**PSY** PSY-P 323; PSY-P 303, P324 (If 2 of these courses are taken, student qualifies for a psychology minor. PSY-P 101, PSY-P 102 and PSY-K 300 required courses count in this minor.)

**Business Option Including Business Minor** (21 credits required for this minor) Students must choose BUS-A 200, BUS-K201 and BUS-L 201 plus four other courses in this category.

- 3 BUS-A 200 Foundations of Accounting
- 3 BUS-K201 The Computer in Business
- 3 BUS-L 201 Legal Environ of Bus S&H (P: Soph. or Honor Freshman)
- 3 BUS-F 300 Intro to Financial Mgmt (P: BUS-A 200 or BUS-A 100/ BUS-A 201-202)
- 3 BUS-G300 Intro to Managerial Economics and Strategies
- 3 BUS-M 300 Intro to Marketing (P or C: BUS-A 200 or BUS-A 100/ BUS-A 201-202)
- 3 BUS-P 300 Intro to Operations Mgt (P: BUS-K 201, BUS-A 200)
- 3 BUS-Z 302 Managing and Behavior in Organizations OR J306 Strategic Management and Leadership

**SPEA Environmental Management Minor** (15 credits required for this minor; required courses include: SPEA-E 272, SPEA-E 311, SPEA-E 363, plus two other courses in this category.)

- 3 SPEA-E 272 Introduction to Environmental Sciences S&H
- 3 SPEA-E 311 Introduction to Risk Assessment and Risk Communication
- 3 SPEA-E 363 Environmental Management
- 3 SPEA-E 400 Topics in Environmental Studies
- 3 SPEA-E 410 Introduction to Environmental Toxicology
- 3 SPEA-E 412 Risk communication
- 3 SPEA-E431 Water Supply and Wastewater Treatment
- 3 SPEA-E451 Air Pollution and Control
- 3 SPEA-E 452 Solid and Hazardous Waste Mgt
- 3 SPEA-E 475 Techniques of Environmental Science (P: SPEA-E 272 or SPEA-H 316)
- 3 SPEA-H316 Environmental Health

**SPEA Environmental Science and Health Minor** (15 credits required for minor; required courses include: SPEA-E272, SPEA-E410, and SPEA-H316, plus two other courses in this category.)

- 3 SPEA-E 272 Introduction to Environmental Sciences
- 3 SPEA-E 375 Techniques of Environmental Science
- 3 SPEA-E 410 Introduction to Environmental Toxicology
- 3 SPEA-E 431 Water Supply and Wastewater Treatment
- 3 SPEA-E 451 Air Pollution and Control
- 3 SPEA-E 452 Solid and Hazardous Waste Management
  or other courses in environmental science and health approved by a SPEA faculty advisor.
- 3 SPEA-H 316 Environmental Health

Visit the AHS website at [www.indiana.edu/~aphealth](http://www.indiana.edu/~aphealth).
# Suggested Course Sequence for Safety
(NOTE: N&M and S&H Courses Covered by Course Requirements)

## Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elementary Composition or Math Modeling</strong> <em>(3)</em></td>
<td><strong>Elementary Composition or Math Modeling</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Arts and Humanities or WLC elective</strong> <em>(3)</em></td>
<td><strong>Arts and Humanities or WLC elective</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>PSY-P101 “Introduction to Psychology 1”</strong> <em>(3)</em></td>
<td><strong>HPER-S151 “Legal Aspects of Safety”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Elective</strong> <em>(1-3)</em></td>
<td><strong>PSY-P102 “Intro to Psychology 2”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Total Credits:</strong> <em>(13-15)</em></td>
<td><strong>Total Credits:</strong> <em>(15)</em></td>
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</tbody>
</table>

## Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Arts and Humanities or WLC elective</strong> <em>(3)</em></td>
<td><strong>Arts and Humanities or WLC elective</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>CHEM-C101 “Elementary Chemistry”</strong> <em>(3)</em></td>
<td><strong>CHEM-C102 “Elementary Chemistry II”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>CHEM-C121 “Elementary Chemistry Lab”</strong> <em>(2)</em></td>
<td><strong>CHEM-C122 “Elementary Chemistry II Lab”</strong> <em>(2)</em></td>
</tr>
<tr>
<td><strong>SOC-S100 “Intro to Sociology”</strong> <em>(3)</em></td>
<td><strong>HPER-S202 “Fundamentals of Fire Protection”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>HPER-S201 “Intro to Industrial Hygiene”</strong> <em>(3)</em></td>
<td><strong>HPER-S251 “Incident Investigation &amp; Analysis”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Elective</strong> <em>(1-3)</em></td>
<td><strong>Elective</strong> <em>(1-3)</em></td>
</tr>
<tr>
<td><strong>Total Credits:</strong> <em>(15-17)</em></td>
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</tbody>
</table>

## Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>ENG-W231 “Professional Writing”</strong> <em>(3)</em></td>
<td><strong>HPER-H391 or PSY-K300 “Statistical Techniques”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>HPER-P205 “Structural Kinesiology”</strong> <em>(3)</em></td>
<td><strong>HPER-S210 “OSHA General Industry Standards”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>HPER-S214 “OSHA Construction Standards”</strong> <em>(3)</em></td>
<td><strong>HPER-S332 “Ergonomics”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>HPER-S345 “Safety Program Management”</strong> <em>(3)</em></td>
<td><strong>SPEA-H316 “Environmental Health”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Elective</strong> <em>(3)</em></td>
<td><strong>Professional Elective</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>Total Credits:</strong> <em>(15)</em></td>
<td><strong>Total Credits:</strong> <em>(15)</em></td>
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</table>

## Summer After Junior Year

- **HPER-S444 “Safety Internship”** *(6 credits)*
  *The Safety internship can also be completed the summer after senior year*

## Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HPER-S410 “Advanced Industrial Hygiene”</strong> <em>(3)</em></td>
<td><strong>HPER-S411 “Industrial Hygiene Sampling and Analysis”</strong> <em>(3)</em></td>
</tr>
<tr>
<td><strong>HPER-S415 “Safety Education and Training”</strong> <em>(3)</em></td>
<td><strong>Professional Elective</strong> <em>(3)</em></td>
</tr>
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</tr>
</tbody>
</table>
Safety

About the Major: a High Priority in Today’s Society

The safety program promotes safety and health in the workplace through
- education
- hazard identification, evaluation, and control
- risk management

The course work includes safety science, safety management and industrial hygiene, along with psychology, life sciences, the environment and communication. Elective courses include homeland security, EMT, natural disasters, and business.

Opportunities in the Program

Students can minor in business, psychology, environmental science and health, or environmental management. They can join our student-run chapters of ASSE (American Society of Safety Engineers), IUEMS (IU’s EMT club), and Eta Sigma Gamma (Health honorary). They have a required internship (usually paid) that takes them out into the workplace. And we have a lab that provides hands-on experience with equipment to test noise levels, air quality, and other critical indicators.

What You Can Do

Safety professionals
- reduce injuries/fatalities.
- provide safety training and leadership
- inspect for hazards
- evaluate ergonomics and environmental conditions
- design programs
- plan for emergencies
- protect corporate resources
- consult for companies or independently

Where You Can Go
- industry
- construction
- insurance
- government
- hospitals and schools
- health non-profits

What You Will Earn

Safety interns earn about $10/hr or more. Salaries for students with BS typically start at about $40-50k, with an MS about $60-70k. For those leading loss prevention efforts for large corporations or those with consulting firms, the salary is often well into six figures.