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:
- 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 106 The Mathematics of Decision & Beauty
- MATH-M or V or S 118 Finite Mathematics
- 3 MATH-M or V 119 Brief Survey of Calculus I
- 4 MATH-M 211 Calculus I
- 4 MATH-M 213 Accelerated Calculus

**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).

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

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**Social and Historical Studies** (6 credits)
Complete 6 A&H credits from the IUB General Education Bulletin.

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**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.

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**Major (91 credits)**

**Safety & Health Courses** (48 credits, C- min req each course)
- 3 SPH-H 174 Prevention of Violence in American Society S&H
- 3 SPH-S 101 Introduction to Safety Science*
- 3 SPH-S 151 Legal Aspects of Safety**
- 3 SPH-S 201 Introduction to Industrial Hygiene*
- 3 SPH-S 210 General Industry Standards **
- 3 SPH-S 214 OSHA Construction Standards *
- 3 SPH-S 231 Safety Engineering and Technology**
- 3 SPH-S 251 Incident Investigation & Analysis **
- 3 SPH-S 332 Ergonomics & Human Factors (P/C: ANAT-A 215 or SPH-K 205) **
- 3 SPH-S 336 Emergency Management** OR
  3 SPH-S-352 System Safety Analysis** (P: 6 cr of SPH courses or Instructor Approval)
- 3 SPH-S 345 Safety Program Management * (P: 6 cr of SPH courses or Instructor Approval)
- 3 SPH-S 410 Advocd Indust Hygiene *(P: SPH-S201 & CHEM-C102)
- 3 SPH-S 411 Industrial Hygiene Sampling & Analysis** (P: SPH-S 410)
- 3 SPH-S 415 Safety Education and Training *(P: 6 cr of SPH courses or Instructor Approval)
- 6 SPH-S 496 (Formerly: HPES-S 444) Field Exp in Occup Safety (P: Safety majors only; jr/sr standing; consent of instructor)

**Additional Required Courses** (28 credits)

Complete one of the following 10 cr. Chemistry sequences:

Preferred:
- 5 CHEM-C 103 Introduction to Chemical Principles N&M
- 3 CHEM-C 117 Principles of Chemistry and Biochemistry I N&M
- 2 CHEM-C 127 Chemistry and Biochemistry Lab I N&M

Also acceptable:
- 3 CHEM-C 101 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 **

Complete each of the following:
- 3 ENG-W 231 Professional Writing Skills or BUS-C 204
- 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) or SOC-S 100 Intro to Sociology S&H
- 3 SPH-B 150 Intro to Public Health S&H
- 3 SPH-K 205 Structural Kines (may sub ANAT-A 215 N&M)
- 3 SPH-Q 381 (Formerly: HPES-H 391 and SPH-H 381) Introduction to Biostatistics or PSY-K 300 Stats or SPEA K 300

Requirements continued on the next page.
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 SPH-H 160 First Aid and Emergency Care (3 cr.) in your professional electives.

Professional Elective Choices.
You may structure your professional electives to earn a minor in SPEA environmental management, business, or psychology.

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

SPH (See SPH Bulletin for course prerequisites)

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-H 316 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 Mgt
___ 3 other courses in environmental science and health approved by a SPEA faculty advisor.
___ 3 SPEA-H 316 Environmental Health

GENERAL EDUCATION
MAJOR
COMPLETE A MINIMUM OF 120 CREDITS FOR THIS DEGREE.
**Suggested Course Sequence for Safety**

(Nota: N&M and S&H courses covered by Course Requirements)

<table>
<thead>
<tr>
<th>Freshman Year-Fall Semester</th>
<th>Freshman Year-Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY-P101 “Introduction to Psychology 1”  (3)</td>
<td>PSY-P102 “Intro to Psychology 2” or SOC-S100 “Intro to Sociology” (3)</td>
</tr>
<tr>
<td>SPH-S101 “Introduction to Safety Science” (3)</td>
<td>SPH-F255 “Threats, Violence, and Workplace Safety” or SPH-H174 “Prevention of Violence” (3)</td>
</tr>
<tr>
<td>Arts and Humanities or WLC elective (3)</td>
<td>SPH-S151 “Legal Aspects of Safety” (3)</td>
</tr>
<tr>
<td>Elementary Composition or Math Modeling (3)</td>
<td>Arts and Humanities or WLC elective (3)</td>
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<tr>
<td>Elective (1-3)</td>
<td>Elementary Composition or Math Modeling (3)</td>
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<tr>
<td>Total Credits: 13-15</td>
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</table>

<table>
<thead>
<tr>
<th>Sophomore Year-Fall Semester</th>
<th>Sophomore Year-Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>CHEM-C103 “Intro to Chemical Principles” or CHEM-C101 &amp; CHEM-C121 “Elem. Chem. and Lab” (5)</td>
<td>CHEM-C117 &amp; CHEM-C127 “Prin. of Chem. &amp; Biochem and Lab” or CHEM-C102 AND CHEM-C122 “Elem. Chem. 2 and Lab” (5)</td>
</tr>
<tr>
<td>SPH-B 150 “Intro to Public Health” (3)</td>
<td>SPH-S231 “Safety Engineering and Technology” (3)</td>
</tr>
<tr>
<td>SPH-S201 “Intro to Industrial Hygiene” (3)</td>
<td>SPH-S251 “Incident Investigation &amp; Analysis” (3)</td>
</tr>
<tr>
<td>Arts and Humanities or WLC elective (3)</td>
<td>SPH-S336 Emergency Management (3)</td>
</tr>
<tr>
<td>Elective (1-3)</td>
<td>Arts and Humanities or WLC elective (3)</td>
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<thead>
<tr>
<th>Junior Year-Fall Semester</th>
<th>Junior Year-Spring Semester</th>
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<tbody>
<tr>
<td>ENG-W231 “Professional Writing” (3)</td>
<td>SPEA-H316 “Environmental Health” (3)</td>
</tr>
<tr>
<td>SPH-K205 “Structural Kinesiology” (3)</td>
<td>SPH-H381 or PSY-K300 “Statistical Techniques” (3)</td>
</tr>
<tr>
<td>SPH-S214 “OSHA Construction Standards” (3)</td>
<td>SPH-S210 “General Industry Standards” (3)</td>
</tr>
<tr>
<td>SPH-S345 “Safety Program Management” (3)</td>
<td>SPH-S332 “Ergonomics” (3)</td>
</tr>
<tr>
<td>Elective (3)</td>
<td>SPH-S336 “Emergency Management” or SPH-S352 “System Safety Analysis” (3)</td>
</tr>
<tr>
<td>Total Credits: 15</td>
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</table>

**Summer After Junior Year**

SPH-S496 “Safety Internship” (6 credits)

*The Safety internship can also be completed the summer after senior year*

<table>
<thead>
<tr>
<th>Senior Year-Fall Semester</th>
<th>Senior Year-Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>SPH-S410 “Advanced Industrial Hygiene” (3)</td>
<td>SPH-S411 “Industrial Hygiene Sampling and Analysis” (3)</td>
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<tr>
<td>SPH-S415 “Safety Education and Training” (3)</td>
<td>Professional Elective</td>
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<td>Professional Elective (3)</td>
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<tr>
<td>Professional Elective (3)</td>
<td>Elective (3)</td>
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<tr>
<td>Total Credits: 15</td>
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</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.