



SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

INDIANA UNIVERSITY

Safety (AHSSABS)

B.S. in Applied Health Science degree (124 minimum credit hours)

2.3 GPA required for admission; 2.0 GPA req. for graduation.

No Pass/Fail except for free electives

Effective for students matriculating summer 2011

Department of Applied Health Science – HPER 116 – (812) 855-3627

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).

Arts and Humanities (6 credits)

Complete 6 credits from the list of approved A&H courses in the IUB General Education Bulletin.

Social and Historical Studies (6 credits)

Complete 6 credits from the list of approved S&H courses in the IUB General Education Bulletin.

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 Introduction to 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 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** **
- ___ 3 ENG-W 231 Professional Writing Skills **or** BUS-X 204
- ___ 3 HPER-H 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.

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 HPER or LSTU 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),
 HPER-H 180, HPER-H 305, HPER-H 306, HPER-H 311,
 HPER-H 318, HPER-H 401, HPER-H 404, HPER-H 460,
 HPER-H 494; HPER-S 217, HPER-S 255 (if not taken as a
 requirement), HPER-S 317, HPER-S 352, HPER-S 354,
 HPER-S 370, HPER-S 425, HPER-S 430, HPER-S 440,
 HPER-S 441; HPER-T 142 **S&H**, HPER-T 201,
 HPER-T 202, HPER-T 301, HPER-T 302, HPER-T 401

SPEA Environmental Management Minor (15 credits required for this minor; in order to receive this minor students must choose SPEA-E 272, SPEA-E 311, SPEA-E 363, plus one other course in this category. SPEA-H 316 required course counts in minor)

- _____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-E 452 Solid and Hazardous Waste Mgt
- _____3 SPEA-E 475 Techniques of Environmental Science (P: SPEA-E 272 or SPEA-H 316)

Business Option Including Business Minor (21 credits required for this minor; in order to receive this minor, students must choose BUS-A 200 and BUS-L 201 plus four other courses in this category. BUS-K 201 required course counts in this minor.)

- _____3 BUS-A 200 Foundations of Accounting
- _____3 BUS-L 201 Legal Environ of Bus **S&H** (P: Soph or hon freshm)
- _____3 BUS-F 300 Intro to Financial Mgmt (P: BUS-A 200 or BUS-A 100/ BUS-A 201-202)
- _____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

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

Psychology Minor

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.)

GENERAL EDUCATION

20-39

MAJOR

91

COMPLETE A MINIMUM OF 124 CREDITS FOR THIS DEGREE.

Visit the AHS website at www.indiana.edu/~aphealth.

SUGGESTED COURSE SEQUENCE FOR SAFETY

(NOTE: N&N AND S&H REQUIREMENTS COVERED BY COURSE REQUIREMENTS)

FRESHMAN YEAR

Fall Semester

ENG-W 131 (3)
 HPER-S 101 (3)
 A&H/WLC elec (3)
 Math Mod (3)
 PSY-P 101 (3)

Spring Semester

HPER-S 151 (3)
 HPER-H 174 (3)
 A&H elec (3)
 WLC elec (3)
 PSY-P102 (3)

SOPHOMORE YEAR

Fall Semester

HPER-S 201 (3)
 HPER-S 214 (3)
 CHEM-C 101 (3)
 CHEM-C 121 (2)
 SOC-S 100 (3)
 Elec (1)

Spring Semester

HPER-S 202 (3)
 HPER-S 210 (3)
 HPER-S 251 (3)
 CHEM-C 102 (3)
 CHEM-C 122 (2)
 Elec (1)

JUNIOR YEAR

Fall Semester

HPER-S 345 (3)
 HPER-P 205 (3)
 HPER-H391 (3)
 ENG-W 231 (3)
 Prof elec. (3)

Spring Semester

HPER-S332 (3)
 HPER-H391 (3)
 SPEA-H 316 (3)
 A&H/WLC elec (3)
 Prof elec (3)

SENIOR YEAR

Fall Semester

HPER-S 410 (3)
 HPER-S 415 (3)
 Prof elec (3)
 Prof elec (3)
 Elec (3)

Spring Semester

HPER-S 411 (3)
 Prof elec (3)
 Elec (9)

Note: S444 (Internship) can be taken during the summer of the Junior or Senior year.

Safety students may want to take H160 (First Aid) and either the First Aid instruction class (H460) or the EMT sequence (H401/404) as professional electives or electives.

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 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.