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:

- 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
- 3 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).

**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 (66 - 73 credits)**

**Anatomy and Physiology Requirement** (3-10 credits)
*Students must acquire at least 3 credits in Anatomy AND Physiology.*

This requirement may be completed by taking the following course:

- 3 MSCI-M 115 Intro to Anatomy & Physiology

Alternatively, students may complete this requirement by completing the following individual Anatomy and Physiology courses:

- 3-5 ANAT-A 215 Basic Human Anatomy N&M or SPH-K 205 Structural Kinesiology
- 5 PHSL-P 215 Physiology N&M

**Public Health Core** (15 credits, C- min req in each course)
Complete each of the following courses:

- 3 SPH-B 366 Community Health
- 3 SPH-E 311 Introduction to Epidemiology (P or C: SPH-Q 381)
- 3 SPH-P 309 Public Health Administration
- 3 SPH-Q 381 Introduction to Biostatistics
- 3 SPH-V 241 (formerly V 351) Found of Environmental Hlth N&M

**Epidemiology Courses** (20 credits, C- min req in each course)
Complete each of the following courses:

- 3 SPH-E 250 Public Health Surveillance and Monitoring**
- 3 SPH-E 350 Infectious Diseases: Outbreaks and Field Investigations**
- 3 SPH-E 353 Distribution and Determinants of Chronic Diseases*
- 3 SPH-E 358 Epidemologic Methods: Concepts*
- 3 SPH-E 359 Epidemologic Methods: Applications*
- 5 SPH-E 496 Field Experience in Epidemiology

**Additional Major Courses** (16 credits)
Complete each of the following courses:

- 3 MATH-M 118 Finite Mathematics
- 4 MATH-H 494 Research & Evaluation Methods in Health & Safety
- 3 SPH-Q 400 Introduction to Biostatistical Computing**
- 3 STAT-S 350 Intro Stats Inference (P: M118, M119 & Stats) or STAT-S 320 Intro to Stats (P: M212 or perm of instrct)

**Related Content Courses** (12 credits, C- min req in each course):
Complete ANY 12 credits from the following

**Statistics and Mathematics**

- 3 MATH-M 211 Calculus I N&M
- 4 MATH-M 212 Calculus II N&M
- 4 MATH-M 301 Linear Algebra and Applications N&M (P: M212; credit not given for both M301 and M303)

Related Content Courses Continued on next page.
Related Content Courses Continued from previous page.

3 MATH-M 303 Linear Algebra for Undergraduates N&M (P: M212; credit not given for both M301 and M303)
3 MATH-M 311 Calculus III N&M
3 STAT-S 431 Applied Linear Models I*
3 STAT-S 432 Applied Linear Models II**

Writing and Public Speaking
3 COLL-P 155 Public Oral Communication
3 ENG-W 231 Professional Writing Skills

Behavioral and Community Health
3 PSY-P 101 Introductory Psychology I N&M
3 PSY-P 102 Introductory Psychology II S&H
3 SPH-B 310 Health Care in Diverse Communities*
3 SPH-B 403 Public Health Program Planning
3 SPH-F 150 Intro to Life-Span Human Development S&H
3 SPH-F 255 Human Sexuality S&H
3 SPH-H 263 Personal Health S&H

Topical Health and Health Promotion
3 SPH-H 172 International Health & Social Issues S&H
3 SPH-H 235 Obesity and Health S&H
3 SPH-H 305 Women’s Health
3 SPH-H 306 Men’s Health
3 SPH-H 320 The Nature of Cancer
3 SPH-H 326 AIDS & Sexually Transmitted Diseases (summer)
3 SPH-H 334 (formerly SPH-H 234) Heart Health & Diabetes
3 SPH-N 220 Nutrition for Health (or N 231 N&M)

Physical Activity
3 SPH-K 409 Basic Physiology of Exercise
(P: ANAT-A 215 or SPH-K 205 or equivalent and PHSL-P 215 or equivalent)
3 SPH-K 412 Exercise in Health and Disease**
3 SPH-K 417 Physical Activity and Disease (P: SPH-K 409)*

Environmental Health
3 SPH-V 201 Introduction to Occupational Safety and Health**
3 SPH-V 214 Environmental Regulations & Code Compliance**
3 SPH-V 215 Food Safety and Sanitation*
3 SPH-V 422 Issues in Global Environmental Health

International Studies
3 INTL-I 202 Global Health and Environment

Sociology
3 SOC-S 358 Social Issues in Health and Medicine
3 SOC-S 370 Research Methods in Sociology

Pre-Health Professions
Consult with your advisor if you are pre-health to ensure you take the necessary courses.
4 BIOL-L 111 Intro to Biol Evolution & Diversity N&M (or L 211)
3 BIOL-L 113 Biology Laboratory (P or C: BIOL-L 112)
3 BIOL-M 200 Micro Organisms in Nature and Disease**
3 CHEM-C 117 Principles of Chemistry and Biochemistry I N&M
3 CHEM-C 341 Organic Chemistry I Lectures
3 CHEM-C 342 Organic Chemistry II Lectures
2 CHEM-C 343 Organic Chemistry I Lab
5 CHEM-N 330 Intermediate Inorganic Chemistry
5 PHYS-P 201 General Physics I N&M
5 PHYS-P 202 General Physics II N&M

* Generally fall only ** Generally spring only
# Suggested Course Sequence for Epidemiology

*(Note: Mathematical Modeling course and 1 N&M course covered by course requirements)*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR-Fall Semester</th>
<th>FRESHMAN YEAR-Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOL-L112</strong> “Foundations of Biology: Biological Mechanisms” (4)</td>
<td><strong>MSCI-M115</strong> “Intro to Anatomy &amp; Physiology” (3)</td>
</tr>
<tr>
<td><strong>MATH-M118</strong> “Finite Mathematics” (3)</td>
<td><strong>SPH-E 250</strong> “Public Health Surveillance and Monitoring” (3)</td>
</tr>
<tr>
<td>Arts and Humanities or WLC elective (3)</td>
<td>Arts and Humanities or WLC elective (3)</td>
</tr>
<tr>
<td>English Composition or Natural and Mathematical Sciences elective (3)</td>
<td>English Composition or Natural and Mathematical Sciences elective (3)</td>
</tr>
<tr>
<td>Elective (3)</td>
<td>Elective (3)</td>
</tr>
<tr>
<td><strong>Total Credits:</strong> 16</td>
<td><strong>Total Credits:</strong> 15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR-Fall Semester</th>
<th>SOPHOMORE YEAR-Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPH-P309</strong> “Public Health Administration” (3)</td>
<td><strong>SPH-E311</strong> “Introduction to Epidemiology” (3)</td>
</tr>
<tr>
<td><strong>SPH-V241</strong> “Foundations of Environmental Health” (3)</td>
<td><strong>SPH-E381</strong> “Introduction to Biostatistics” (3)</td>
</tr>
<tr>
<td>Arts and Humanities or WLC elective (3)</td>
<td>Arts and Humanities or WLC elective (3)</td>
</tr>
<tr>
<td>Social and Historical Studies elective (3)</td>
<td>Social and Historical Studies elective (3)</td>
</tr>
<tr>
<td>Elective (3)</td>
<td>Elective (3)</td>
</tr>
<tr>
<td><strong>Total Credits:</strong> 15</td>
<td><strong>Total Credits:</strong> 15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR-Fall Semester</th>
<th>JUNIOR YEAR-Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPH-E 358</strong> “Epidemiologic Methods: Concepts” (3)</td>
<td><strong>SPH-E 350</strong> “Infectious Diseases: Outbreaks and Field Investigations” (3)</td>
</tr>
<tr>
<td><strong>SPH-E 359</strong> “Epidemiologic Methods: Applications” (3)</td>
<td><strong>SPH-Q 400</strong> “Intro to Biostatistical Computing” (3)</td>
</tr>
<tr>
<td><strong>STAT-S350</strong> “Introduction to Statistical Inference” (3)</td>
<td><strong>SPH-B366</strong> “Community Health” (3)</td>
</tr>
<tr>
<td>Related Content Course (3)</td>
<td>Related Content Course (3)</td>
</tr>
<tr>
<td>Elective (3)</td>
<td>Elective (3)</td>
</tr>
<tr>
<td><strong>Total Credits:</strong> 15</td>
<td><strong>Total Credits:</strong> 15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR-Fall Semester</th>
<th>SENIOR YEAR-Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPH-E 353</strong> “Distribution and Determinants of Chronic Diseases” (3)</td>
<td><strong>SPH-E496</strong> “Field Experience in Epidemiology” (5)</td>
</tr>
<tr>
<td><strong>SPH-H 494</strong> “Research and Evaluation Methods in Health and Safety” (3)</td>
<td>Elective (3)</td>
</tr>
<tr>
<td>Related Content Course (3)</td>
<td>Elective (2)</td>
</tr>
<tr>
<td>Related Content Course (3)</td>
<td></td>
</tr>
<tr>
<td>Elective (3)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits:</strong> 15</td>
<td><strong>Total Credits:</strong> 15</td>
</tr>
</tbody>
</table>

*The Field Experience in Epidemiology can only be completed once all required coursework has been finished*
Epidemiology

The BSPH in Epidemiology degree is a four year undergraduate degree offered through the Department of Epidemiology and Biostatistics at Indiana University-Bloomington. The field of public health is charged with assessing, understanding, and responding to the behavioral and ecological factors that influence the health of communities throughout the world. Public health professionals strive to improve the health of individuals and communities by efforts situated in government agencies, nonprofit organizations, hospitals, schools and universities, and corporations. The proposed structure of the BSPH in Epidemiology degree is consistent with the standards required by the Council on Education for Public Health (CEPH), the federally recognized accrediting body for public health academic programs. Students who choose this degree program are required to take courses related to the five core areas in public health: epidemiology, health administration, environmental health, biostatistics, and social and behavioral health. They also take courses that expose them to the basic fundamentals required of a public health professional in the areas of disease surveillance, study design, data collection and analysis, identification of risk factors for infectious and chronic diseases, and interpretation of findings from research studies. At the conclusion of their course work, students must complete an internship which provides them an opportunity to apply the skills and competencies they attained within an actual work environment. In addition to allowing the students to synthesize the many concepts they learned in the core public health and epidemiology courses, the field experience provides students with an opportunity to act professionally, think critically, communicate with many different individuals, and develop other important skills required to be successful in an epidemiology work environment. Students completing this degree will be well positioned to begin employment as epidemiologists or to pursue an advanced degree.

Opportunities in the Program

Degree programs in public health balance theoretical knowledge with professional experience through internships and opportunities to work with faculty on research projects.

Career Opportunities

The work of a public health professional is diverse and includes activities such as documenting the spread of disease and illness, developing and managing programs designed to change health-related behaviors, implementing regulatory initiatives and working with policy makers to facilitate societal changes that promote well-being. Public interest in a healthy lifestyle is increasing the demand for public health professionals. Public health careers can be found in local, state, and federal government; nonprofit organizations; businesses and corporations; hospitals; county health departments; universities; and with health foundations and health-based grant projects. A public health degree can lead to career positions such as the following:

- Biostatistician
- Disease Prevention Manager
- Environmental Health Specialist
- Health Data Analyst
- Health Promotion Specialist
- Maternal and Child Health Specialist
- Public Health Educator
- Public Health Epidemiologist
- Public Health Researcher
- Sexual Health Educator
- Technical Advisor for HIV/AIDS Programs
- Vaccine Advisor and Program Manager
- Youth Tobacco Prevention Coordinator