****

Questions – Contact Directly:  
Dr. Sabrina Mueller-Spitz  
[muellesr@uwosh.edu](mailto:muellesr@uwosh.edu)

**Environmental Health**

**56 credit min**

**Effective Fall 2017**

**Core Courses for Environmental Health (21-27 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| BIO 105 | Biological Concepts(NS)(XL) | B | (4) \_\_\_\_ |
| **OR** |  |  |  |
| BIO 108 | Honors: Concepts in Bio(NS)(XL) | F | (5) \_\_\_\_ |
| BIO 113 | Environmental Health Orientation | S | (2) \_\_\_\_ |
| BIO 302 | Internship in Environmental Health | B | (3) \_\_\_\_ |
| BIO 303 | Introduction to Epidemiology (Bio 105) | F | (3) \_\_\_\_ |
| BIO 309 | Bacteriology (NS)(Bio 105 and 1 year general Chem) | B | (5) \_\_\_\_ |
| BIO 323 | Intro Molecular & Cell Bio  (Bio 105, Chem 105 and/or C/Chem 106, or Chem 101,102 w/B) | B | (3) \_\_\_\_ |
| BIO 338 | Environmental Toxicology (Bio 105) | S | (3) \_\_\_\_ |
| BIO 445 | Special Topics in Environmental Health (1 credit)  (Bio 105, Chem 105) (3 separate topics are required) | B | (3) \_\_\_\_ |
| BIO 491 | Senior Survey\*\*\* | B | (0) \_\_\_\_ |

**Advanced Knowledge for Environmental Health (5 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| BIO 312 | Medical Bacteriology Lecture (Bio 309 and 341) | S | (2) \_\_\_\_ |
| BIO 339 | Public Health and Food Microbiology (NS)(Bio 309 or BIO 233 ) | S | (3) \_\_\_\_ |

**Required Chemistry and Physics for Environmental Health**

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 105 | General Chemistry I (NS)(XL) | B | (5) \_\_\_\_ |
| CHEM 106 | General Chemistry II (NS)(XL) | B | (5) \_\_\_\_ |
| CHEM 234 | Organic Chemistry Lab I (Co-req 235) | B | (1) \_\_\_\_ |
| CHEM 235 | Organic Chemistry I (NS)(Chem 106 w/C or better)(Co-req 234) | B | (3) \_\_\_\_ |
| PHY/AST 107 | General Physics (NS)(XL)(Math 106, 108) | F | (5) \_\_\_\_ |
| **OR** |  |  |  |
| PHY/AST 109 | General Physics (NS)(XL)(C/Math 171) | F | (5) \_\_\_\_ |
| MATH | Math 201 or any statistics course that meets COLS BS Math requirement |  | (3) \_\_\_\_ |

**Required General Education Courses for Environmental Health (6 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| PUB AD 221 | Introduction to Public Administration (SS)(XS) | B | (3) \_\_\_\_ |
| PUB AD 307 | Administrative Law and Procedure (SS)(PubAff 221 or CrimJus 212) |  | (3) \_\_\_\_ |
| **OR** |  |  |  |
| POL SCI 316 | Environmental Law |  | (3) \_\_\_\_ |
| PUB AD 366 | Emergency Planning and Admin (SS)(PubAd 221 or CrimJus 212) |  | (3) \_\_\_\_ |

**Advanced Knowledge Electives for Environmental Health**

**You must gain advanced, in-depth knowledge in at least two of the areas below (5 credit min)**

|  |
| --- |
| **GIS (Geographic Information Systems):** |
| |  |  |  |  | | --- | --- | --- | --- | | GEOG 391 | I-Mapping and Visualization (SS) | B | (4) \_\_\_\_ | |
| **Hydrogeology:** |
| |  |  |  |  | | --- | --- | --- | --- | | GEOL 365 | Physical Hydrogeology (Geol 102, 110, or 150; Math 108) | ^F | (3) \_\_\_\_ | |
| **Soils:** |
| |  |  |  |  | | --- | --- | --- | --- | | GEOG 304 | Principles of Soil Science (Geog 106 or 221 or 102 or 110 or 150) | F | (3) \_\_\_\_ | |
| **Water & Wastewater:** |
| |  |  |  |  | | --- | --- | --- | --- | | GEOG 364 | Water Resource Management (SS)(8 credits Phys Geog or Phys Geol) |  | (3) \_\_\_\_ | | ENGR 202 | Introduction to Water and Wastewater | F | (3) \_\_\_\_ | |
| **Vector Control:** |
| |  |  |  |  | | --- | --- | --- | --- | | BIO 332 | Entomology (NS)(1 term general Bio and Bio 230) | S | (3) \_\_\_\_ | | BIO 354 | Parasitology (NS)(1 term general Bio and Bio 230) | S | (3) \_\_\_\_ | |
| **Air Quality and Control:** |
| |  |  |  |  | | --- | --- | --- | --- | | ENGR 201 | Introduction to Air Quality | F | (2) \_\_\_\_ | |
| **Solid & Hazardous Waste:** |
| |  |  |  |  | | --- | --- | --- | --- | | ENGR 202 | Introduction to Solid Waste | S | (2) \_\_\_\_ | |

**Recommended Courses**

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 171 | Calculus I (MA)(XM)(Math 108 or 104, 106 w/C) | B | (4)\_\_\_\_ |
| ECON 204 | Principles of Macroeconomics (SS)(XS) |  | (3)\_\_\_\_ |
| ECON 206 | Principles of Microeconomics (SS)(XS) |  | (3)\_\_\_\_ |
| ECON 360 | Environmental Economics and Policy (SS) |  | (3)\_\_\_\_ |

Pre-requisites are in parentheses

S = Spring

F = Fall

^F = Fall, odd years

B = Both Fall & Spring

C/ = Concurrent enrollment

\*No more than **six** credits of Bio 301 and/or Bio 446 and 456 can be counted towards degree

During their last semester senior students will take the Senior Survey course (BIO 491) at the testing center.

**Must meet General Education and Degree Requirements to earn BS Degree**

Approved: Fall 2017