# The Bayer School of Natural and Environmental Sciences

**Advisement and Pre-Graduation Review Form (for students entering FALL 2021+)**

**NAME ________________________________________**  
**ID# ______________________________**  
**Minor _____________________________**

**B.S. ENVIRONMENTAL SCIENCE (127 CR)**

**CR**  | **SEM**  | **GR**  | **R**
---|---|---|---
**BIOLOGY (15 CR)**  |  |  |  
Biol 111 / 111L Biology I/Lab  |  |  |  
Biol 112 / 112L Biology II/Lab  |  |  |  
Biol 212 Cell & Molecular  |  |  |  
Biol 319 Gen. Microbiology  |  |  |  

**PHYSICS (8 CR)**  |  |  |  
Phys 201 Physics for Life I  |  |  |  
Phys 201L Physics for Life I Lab  |  |  |  
Phys 202 Physics for Life II  |  |  |  
Phys 202L Physics for Life II Lab  |  |  |  

**ENVI SCIENCE COURSES (15 CR)**  |  |  |  
Envi 251 Prin of Envi Science  |  |  |  
Envi 472 Env Biology  |  |  |  
Envi 452 Env Chemistry  |  |  |  
Envi 470 Env Toxicology  |  |  |  
Envi _____ Capstone  |  |  |  

**ENVI SCIENCE ELECTIVES (20 CR)**  |  |  |  
(Students must take at least one field course Envi 466/492W/494 or other courses approved by their faculty mentor)

**MATH (13 CR)**  |  |  |  
Math 115 Calculus I  |  |  |  
Math 225/301 Statistics I  |  |  |  
**MATH/CS Electives* (6 CR)**  |  |  |  
3 or 4  |  |  |  
3 or 4  |  |  |  

**CHEMISTRY (18 CR)**  |  |  |  
Chem 121 Gen Chem I  |  |  |  
Chem 121L Gen Chem I Lab  |  |  |  
Chem 122 Gen Chem II  |  |  |  
Chem 122L Gen Chem II Lab  |  |  |  
Chem 211 Organic Chem I  |  |  |  
Chem 211L Organic Chem I Lab  |  |  |  
Chem 212 Organic Chem II  |  |  |  
Chem 212L Organic Chem II Lab  |  |  |  

**GENERAL ELECTIVES (9 CR)**  |  |  |  
Addl. Bridges requirements:  
Theology course  
Philosophy course  
3 "W" Writing Intensive courses

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*Math/Comp Science elective will be recommended by mentor: MATH 116, 215, 302, 310, 314, 335, 325W or COSC 101, 135, 160 or 170

BRDG courses can be taken in any sequence throughout the undergraduate curriculum.  
Undergraduate research is strongly encouraged

***This tally sheet is subject to change.***
**Minimum of 20 ENVI SCIENCE credits to be selected from the following:**

**Fall Courses:**
- BIOL 335  
  Vertebrate Anatomy and Development
- BIOL 340W  
  Evolution
- BIOL 417  
  Invertebrate Biology / Biotechnology
- ENVI/BIOL 492W  
  Stream / Field Biology
- ENVI 531  
  Environmental Management
- ENVI 533W  
  Writing for Env Professional
- ENVI 537  
  Conflict Resolution (2 credit)
- ENVI 540  
  Environmental Law (2 credit)
- ENVI 542  
  Sustainable Business Practices (2 credit)
- ENVI 571  
  Water Pollution Prev and Control
- CHEM 301  
  Physical Chemistry for Life Sciences
- CHEM 321  
  Physical Chemistry
- CHEM 423  
  Analytical Chemistry

**Spring Courses:**
- CHEM 322  
  Physical Chemistry II
- CHEM 320L  
  Research Lab Techniques (2 credits)
- ENVI 520  
  Environmental GIS
- ENVI/BIOL 497  
  Applied and Env Microbiology
- ENVI 402/502  
  Plant Bio-Diversity
- ENVI/BIOL 499  
  Microbial Ecology
- ENVI 544  
  Environmental Policy
- ENVI 570  
  Air Pollution Prev and Control
- ENVI 549  
  Quantitative Environmental Methods
- ENVI 531  
  Environmental Management
- ENVI 572  
  Solid and Hazardous Waste

**Summer Courses:**
- ENVI/BIOL 466  
  Terrestrial Field Biology
- ENVI 491  
  Environmental Hydrogeology
- ENVI 494  
  Environmental Sampling and Analyses
- ENVI/BIOL 499  
  Microbial Ecology
- ENVI 650  
  Conservation Biology

**Other Courses (offered during various semesters):**
- BIOL 398/399, CHEM 490H, ENVI 390  
  Research
- ENVI 600-603  
  Internship (0-6 credits)

(Other courses, including courses at other institutions, may be approved. Conservation Biology
Students can concentrate studies in BIOL/CHEM/ENVI tracks and earn a minor in biology or chemistry).