

**THE BAYER SCHOOL OF NATURAL AND ENVIRONMENTAL SCIENCES**  
**Advisement and Pre-Graduation Review Form** (for students entering FALL 2021+)

NAME \_\_\_\_\_

B.S. ENVIRONMENTAL SCIENCE (127 CR)

ID# \_\_\_\_\_

Minor \_\_\_\_\_

| <b>BRIDGES (CLE) (25 CR)</b>    | <b>CR</b> | <b>SEM</b>                     | <b>GR</b> | <b>R</b> |
|---------------------------------|-----------|--------------------------------|-----------|----------|
| BRDG 101 Writing & Analysis     | 3         | _____                          | _____     | _____    |
| BRDG 102 Writing & Literature   | 3         | _____                          | _____     | _____    |
| BRDG 100 Research & Info Skills | 1         | _____                          | _____     | _____    |
| EQ xxx Essential Questions Sem  | 3         | _____                          | _____     | _____    |
| BRDG 105 Intro to Ethical Reas  | 3         | _____                          | _____     | _____    |
| Crit Thinking (BRCT)_____       | 3         | _____                          | _____     | _____    |
| Cultural Fluen(BRCF)_____       | 3         | _____                          | _____     | _____    |
| Ethical Reas (BRET)_____        | 3         | _____                          | _____     | _____    |
| Social & Hist (BRSH)_____       | 3         | _____                          | _____     | _____    |
| Quant & Scient Reas (BRQS)      |           | <i>CHEM 121 &amp; MATH 115</i> |           |          |
| Comm & Creative Expr (BRCC)     |           | <i>ENGL 302W</i>               |           |          |

| <b>BIOLOGY (15 CR)</b>         | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|--------------------------------|-----------|------------|-----------|----------|
| BIOL 111 / 111L Biology I/Lab  | 4         | _____      | _____     | _____    |
| BIOL 112 / 112L Biology II/Lab | 4         | _____      | _____     | _____    |
| BIOL 212 Cell & Molecular      | 4         | _____      | _____     | _____    |
| BIOL 319 Gen. Microbiology     | 3         | _____      | _____     | _____    |

| <b>PHYSICS (8 CR)</b>             | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|-----------------------------------|-----------|------------|-----------|----------|
| PHYS 201 Physics for Life I       | 3         | _____      | _____     | _____    |
| PHYS 201L Physics for Life I Lab  | 1         | _____      | _____     | _____    |
| PHYS 202 Physics for Life II      | 3         | _____      | _____     | _____    |
| PHYS 202L Physics for Life II Lab | 1         | _____      | _____     | _____    |

| <b>PROGRAM COURSES (4 CR)</b> | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|-------------------------------|-----------|------------|-----------|----------|
| ENGL 302W Scientific Writing  | 3         | _____      | _____     | _____    |
| SPRG 105 Seminar: Career Dev. | 1         | _____      | _____     | _____    |
| Experiential Learning _____   | 0-1       | _____      | _____     | _____    |

| <b>ENVI SCIENCE COURSES (15 CR)</b> | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|-------------------------------------|-----------|------------|-----------|----------|
| ENVI 251 Prin of Envi Science       | 3         | _____      | _____     | _____    |
| ENVI 472 Env Biology                | 3         | _____      | _____     | _____    |
| ENVI 452 Env Chemistry              | 3         | _____      | _____     | _____    |
| ENVI 470 Env Toxicology             | 3         | _____      | _____     | _____    |
| ENVI _____ Capstone                 | 0-3       | _____      | _____     | _____    |

| <b>MATH (13 CR)</b>              | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|----------------------------------|-----------|------------|-----------|----------|
| MATH 115 Calculus I              | 4         | _____      | _____     | _____    |
| MATH 225/301 Statistics I        | 3         | _____      | _____     | _____    |
| <b>MATH/CS Electives* (6 CR)</b> |           |            |           |          |
| _____                            | 3 or 4    | _____      | _____     | _____    |
| _____                            | 3 or 4    | _____      | _____     | _____    |

| <b>ENVI SCIENCE ELECTIVES (20 CR)</b>  | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|--|-----------|------------|-----------|----------|
| (Students must take at least one field course ENVI 466/492W/494 or other courses approved by their faculty mentor) |           |            |           |          |
| _____  | _____     | _____      | _____     | _____    |
| _____  | _____     | _____      | _____     | _____    |
| _____  | _____     | _____      | _____     | _____    |

| <b>CHEMISTRY (18 CR)</b>      | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|-------------------------------|-----------|------------|-----------|----------|
| CHEM 121 Gen Chem I           | 4         | _____      | _____     | _____    |
| CHEM 121L Gen Chem I Lab      | 1         | _____      | _____     | _____    |
| CHEM 122 Gen Chem II          | 4         | _____      | _____     | _____    |
| CHEM 122L Gen Chem II Lab     | 1         | _____      | _____     | _____    |
| CHEM 211 Organic Chem I       | 3         | _____      | _____     | _____    |
| CHEM 211L Organic Chem I Lab  | 1         | _____      | _____     | _____    |
| CHEM 212 Organic Chem II      | 3         | _____      | _____     | _____    |
| CHEM 212L Organic Chem II Lab | 1         | _____      | _____     | _____    |

| <b>GENERAL ELECTIVES (9 CR)</b> | <b>CR</b> | <b>SEM</b> | <b>GR</b> | <b>R</b> |
|---------------------------------|-----------|------------|-----------|----------|
| _____                           | _____     | _____      | _____     | _____    |
| _____                           | _____     | _____      | _____     | _____    |
| _____                           | _____     | _____      | _____     | _____    |

*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 230L     | 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).