## B.S. in Chemistry: Concentration in Environmental Chemistry

Effective Fall, 2018

### Chemistry (CHEM) (49 credits)
- General Chemistry lecture and lab: □ 211 (3)  □ 213 (1)  □ 212 (3)  □ 214 (1)
- Organic Chemistry lecture and lab: □ 313 (3)  □ 315 (2)  □ 314 (3)  □ 318 (2)
- Quantitative Chemical Analysis: □ 321 (4)
- Physical Chemistry lecture and lab: □ 331 (3)  □ 336 (2)  □ 332 (3)  □ 337 (2)
- Prop. and Bonding of Inorganic Compounds: □ 441 (3)  -or-  Bioinorganic Chemistry □ 446 (3)
- Instrumental Methods of Chemical Analysis and Lab: □ 422 (3)  □ 423 (2)
- Aquatic Environmental Chemistry: □ 427 (3)  [Spring, even years]
- Atmospheric Chemistry: □ 438 (3)

CHEM Elective (lecture or research course): □ ___ (3)

### Physics (PHYS) (8 credits)
- University Physics lecture and lab: □ PHYS 160 (3)  □ PHYS 161 (1)  □ PHYS 260 (3)  □ PHYS 261 (1)
- College Physics lecture and lab: □ PHYS 243 (3)  □ PHYS 244 (1)  □ PHYS 245 (3)  □ PHYS 246 (1)

### Mathematics (MATH) (11 credits)
- Analytic Geometry and Calculus: □ 113 (4)  -or-  123-124 □ 114 (4)  □ 213  -or-  STAT 250 (3)

### Science Core Courses (11 credits)
- Introductory Geology: □ GEOL 101 (4)
- Soil Geology: □ GEOL 306 (3)
- Environmental Biology: Molecules and Cells: □ EVPP 210 (4)  -or-  Cell Structure and Function □ BIOL 213 (4)

### Science Electives (6-8 credits)
- Chemical Oceanography: □ CHEM 458 (3)  -or-  Intro. to Oceanography □ BIOL/EVPP/GEOL 309 (3)
- Envir. Sci.: Biological Diversity and Ecosystems: □ EVPP 301(4)
- Principles of Environmental Toxicology: □ EVPP 445 (3)
- Environmental Geology: □ GEOL 305 (3)
- Hydrogeology: □ GEOL 313 (3)
- Biology of Microorganisms: □ BIOL 305/306 (4)  -or-  Envir. Microbiology Essentials □ EVPP 305/306 (4)
  [Pre-requisite BIOL213]  [Pre-requisite EVPP 210]
- Global Environmental Hazards: □ GGS 302 (3)  [Pre-requisite GGS 121]

### Mason Core (30 credits) (approved courses are listed in the University Catalog)
- Written Communication: □ ENGH 101 (3)  -and-  □ ENGH 302 (3)
- Oral Communication: □ COMM 100  -or-  COMM 101 (3)
- Western Civilization/World History: □ HIST 100  -or-  HIST 125 (3)
- Information Technology: □ ___ (3)
- Literature: □ ___ (3)
- Fine Arts: □ ___ (3)
- Social and Behavioral Sciences: □ ___ (3)
- Global Understanding: □ ___ (3)
- Synthesis: □ ___ (3)

### Electives (3-5 credits)
From any area: □ (5)

TOTAL CREDITS REQUIRED: 120 Minimum (of which 45 must be upper-division ≥ 300 level); overall GPA ≥ 2.00; major requirements GPA ≥ 2.30; maximum of two courses of CHEM with a "D" grade. **All CHEM prerequisite courses require a grade of C or better.**

rev. 12/5/17