Environmental Science Core Program and Option Requirements:

Environmental Science Required Courses (81-84 credits)
ENVS 100 Introduction to Environmental Science (5)
ECON 100 General Education Economics (5)
GEOL 120 Physical Geology—The Solid Earth (5)
GEOL 121 Physical Geology—Surficial Processes (5)
CHEM 151 General Chemistry (5)
CHEM 152 General Chemistry (5)
CHEM 153 General Chemistry (5)
BIOL 171 Biology I (5)
BIOL 172 Biology II (5)
BIOL 173 Biology III (5)
DSCI 245 Data Analysis for Business (4) or MATH 380 (5)
BIOL 270 Biological Investigation (3)
ENVS 300 Junior Seminar (1)
GEOL 320 Environmental Geology (4) or GEOL 380 World Resources and Populations (5)
GEOG 323 GIS for Environmental Science (3)
DSCI 346 Advanced Data Analysis for Business (4) or MATH 386 Applied Statistics (5) or
MATH 161 Calculus (5)
ENVS 400 Senior Seminar (1)
BIOL 440 Ecology (4)
PLAN 431 Environmental Impact Statements (3)
GEOL 470 Hydrogeology (4)

Degree Options—choose one of the three options below for the BS.
Students must satisfy course requirements in one of the following three subject areas: Environmental Biology, Environmental Chemistry or Environmental Geology.

Note that some course options may not result in there being 60 upper division credits required for graduation within the major. Advisor consultation is required.

Environmental Biology (30)
Required General Biological Knowledge
Any one of the following (5 credits)
BIOL 301 Microbiology (5)
BIOL 302 Botany (5)
BIOL 303 Invertebrate Zoology (5)
BIOL 304 Vertebrate Zoology (5)
Capstone (5 credits)
BIOL 490 Capstone (5)
Electives (20)
20 credits of upper division electives with advisor’s consent

Required environmental science credits 81-84 credits
General biological knowledge credits 30 credits
Minimum total credits for above emphasis 111 credits
Environmental Chemistry (35-36)
All Required General Chemistry Courses (25 credits)
CHEM 304 Quantitative Analysis (6)
CHEM 319 Modern Inorganic Chemistry (4)
CHEM 351 Organic Chemistry (4)
CHEM 352 Organic Chemistry (4)
CHEM 372 Organic Chemistry Lab I (3)
CHEM 491 Senior Thesis (4)
Chemistry Elective, select one (5–6 credits)
CHEM 353 Organic Chemistry (3) and CHEM 373 Organic Chemistry Lab II (3)
CHEM 480 Biochemistry (5)
Required Geochemistry Course (5 credits)
GEOL 463 Environmental Geochemistry (5)

Required environmental science credits 81-84 credits
Required general chemistry credits 25 credits
Required geology credits 5 credits
Chemistry elective credits 5–6 credits
Minimum total credits for above emphasis 116 credits

Environmental Geology
All Required Geology Courses (34 credits)
GEOL 122 Historical Geology (5)
GEOL 311 Earth Materials (4)
GEOL 360 Geologic Hazards (4)
GEOL 411 Sedimentology and Stratigraphy (4)
GEOL 462 Principles of Geochemistry (5) or GEOL 463 Environmental Geochemistry (5)
GEOL 475 Engineering Geology: Soils (4)
Capstone (4 credits)
GEOL 490 Water in the West (4)
Electives (4)
Select four credits of upper division electives with advisor’s consent
Required environmental science credits 81-84 credits
Required geology credits 34 credits
Minimum total credits for above emphasis 115 credits