

BS in Environmental Science

Environmental Science is one of the most important and exciting fields in today's world. The UTEP Environmental Science program offers four tracks that allow you to concentrate on different aspects of Environmental Science. These are Environmental Biology, Environmental Chemistry, Environmental Geoscience, and Environmental Hydroscience. There is also a concentration leading to a Secondary Teacher Certification (grades 7-12). The science courses on these tracks give our graduates the background and quantitative skills to excel in their careers and fulfill their professional goals whether in industry, government or continuing in academia. In addition, special classes give students practice in environmental sample collection, data analysis, report writing and presentation. Professional development and career preparation are built into the program. Every student gets the opportunity to do research with a faculty member and every student has at least one professional internship as part of the degree.

There is a strong demand for Environmental Science Graduates. According to the US Bureau of Labor Statistics, environmental science jobs are growing at 5% a year, with a median salary of \$76,530 and starting salaries over 50,000 according to several jobs websites.

Marketable Skills

Students will develop:

- Communication: Reach mutual understanding through effective exchange of information, ideas, and feelings
- Critical thinking: Analyze and evaluate issues in order to solve problems and develop informed opinions
- Problem-solving: Find solutions to difficult or complex issues
- Research: Be able to search, investigate and critically analyze information in response to a specific research question
- Teamwork: Participate as an effective, efficient member of a group in order to meet a common goal
- Writing: Communicate using text in a clear and concise manner

Additionally, students will learn about 3-D spatial thinking, the ability to interpret geological maps, mapping skills, sample collection, and organization skills.

All students will fulfill the University Foundation courses and the Environmental Science Core, a sequence of environmental science classes. In addition, students take courses in their selected concentration area. Each concentration area is different and contains unique course requirements.

The Bachelor of Science (BS) degree in Environmental Science can be used to obtain a concentration in Secondary Teacher Certification 7-12.

Courses required of all students in the program:

Fast Track

The Fast-Track Program (<http://catalog.utep.edu/admissions/undergraduate/fast-track/#text>) enables outstanding undergraduate UTEP students to receive both undergraduate and graduate credit for up to 15 hours of UTEP course work as determined by participating Master's and Doctoral programs.

Not all undergraduate programs have elected to participate in the Fast Track option, so students should see their departmental graduate advisor for information about requirements and guidelines. A list of courses that have been approved for possible use at the graduate level is found here (<http://catalog.utep.edu/admissions/undergraduate/fast-track/#fasttrackcoursestext>).

Degree Plan

BS in Environmental Science Core for all concentrations

Required Credits: 120

| Code | Title | Hours |
|---|--------------------------|-------|
| Designated Core (All courses require a grade of C or better) | | |
| Required Courses: ¹ | | |
| CHEM 1105 | Laboratory for CHEM 1305 | 1 |
| CHEM 1106 | Laboratory for CHEM 1306 | 1 |
| CHEM 1305 | General Chemistry | 3 |
| CHEM 1306 | General Chemistry | 3 |
| MATH 1411 | Calculus I | 4 |
| University Core Curriculum | | |
| Complete the University Core Curriculum requirements. | | |
| An applied internship that promotes learning, hands-on experience, and industrial practice by applying international manufacturing management and engineering fundamentals is offered in a local manufacturing plant. | | 42 |
| Environmental Science Core | | |

| | | |
|-----------|---|---|
| ESCI 1101 | Environmental Sci. Lab | 1 |
| ESCI 1301 | Intro to Environmental Sci | 3 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| ESCI 4398 | Environmental Sci. Internship (Note: Not required for ESCI Secondary Education Minor) | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |

Concentration

Select one of the concentrations below: 49

Upper Division Requirement

Select a total of thirty-seven hours of upper division course work ¹

Total Hours 120

¹ A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

Concentrations**Environmental Biology**

| Code | Title | Hours |
|---|--|-----------|
| Environmental Biology Concentration | | |
| Required Courses: | | |
| BIOL 1107 | Topics in Study of Life I | 1 |
| BIOL 1108 | Organismal Biology Laboratory | 1 |
| BIOL 1305 | General Biology | 3 |
| BIOL 1306 | Organismal Biology | 3 |
| BIOL 3117 | Ecology Laboratory | 1 |
| BIOL 3316 | Ecology | 3 |
| BIOL 4428 | Global Change Ecology | 4 |
| Select eight hours of the following: | | 8 |
| BOT 2410 | General Botany | |
| GEOG 1306 & GEOG 1106 | Physical Geography and Laboratory for GEOG 1306 | |
| GEOL 1313 & GEOL 1103 | Intro to Physical Geology and Lab for GEOL 1313 | |
| MICR 2141 | Gen Microbiology Laboratory | |
| MICR 2340 | General Microbiology | |
| ZOOL 2406 | Vertebrate Zoology | |
| ZOOL 2466 | Invertebrate Zoology | |
| Select 14 hours of the following: | | 14 |
| BIOL 3320 | Genetics | |
| BIOL 3321 | Evolution | |
| BIOL 3342 | Plants and People | |
| BIOL 3360 | Quantitative Methods Ecology | |
| BIOL 3417 | Plant Ecology | |
| BIOL 4225 | Field Biology | |
| BIOL 4324 | Animal Behavior | |
| BIOL 4327 | Animal Ecology | |
| BIOL 4398 | Special Problems | |
| BIOL 4466 | Ecosystem Ecology | |

| | | |
|---|--------------------------------|-----------|
| BOT 3437 | Plant Diversity & Systematics | |
| ZOOL 4476 | Fish, Amphibians, and Reptiles | |
| ZOOL 4478 | Birds and Mammals | |
| Additional Semester Hours | | 11 |
| Select 11 hours from courses in BIOL, BOT, CHEM, ESCI, GEOG, GEOL, MICR, ZOOL | | |
| Total Hours | | 49 |

Environmental Chemistry

| Code | Title | Hours |
|--|--------------------------------|-----------|
| Concentration in Environmental Chemistry | | |
| Required Courses: | | |
| CHEM 2221 | Organic Chemistry I Lab | 2 |
| CHEM 2321 | Organic Chemistry I | 3 |
| CHEM 2322 | Organic Chemistry II | 3 |
| CHEM 3110 | Lab for Chemistry 3310 | 1 |
| CHEM 3151 | Lab for Chemistry 3351 | 1 |
| CHEM 3310 | Analytical Chemistry | 3 |
| CHEM 3330 | Biochem I:Struc & Function | 3 |
| CHEM 3351 | Physical Chemistry I | 3 |
| CHEM 4211 | Instrumental Meths Analyt Chem | 2 |
| CHEM 4212 | Lab for Chemistry 4211 | 2 |
| MATH 1312 | Calculus II | 3 |
| MATH 2313 | Calculus III | 3 |
| PHYS 2320 | Introductory Mechanics | 3 |
| PHYS 2120 | Laboratory for PHYS 2320 | 1 |
| PHYS 2321 | Introductory Electromagnetism | 3 |
| PHYS 2121 | Laboratory for PHYS 2321 | 1 |
| Additional Semester Hours | | 12 |
| Select 12 hours from courses in CHEM, ESCI, GEOG, GEOL, GEOP | | |
| At least 7 hours must be upper division. | | |
| Total Hours | | 49 |

Environmental Geoscience

| Code | Title | Hours |
|---|---|-------|
| Environmental Geoscience Concentration | | |
| Required Courses: | | |
| GEOL 1313 & GEOL 1103 or GEOL 1211 & GEOL 1111 | Intro to Physical Geology and Lab for GEOL 1313 Principles of Earth Sciences and Principles of Earth Sci - Lab | 3-4 |
| GEOL 1314 & GEOL 1104 or GEOL 1212 & GEOL 1112 | Intro to Historical Geol and Lab for GEOL 1314 Principles of Earth Science and Laboratory for Geology 1212 | 3-4 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| PHYS 2320 | Introductory Mechanics | 3 |
| PHYS 2120 | Laboratory for PHYS 2320 | 1 |
| GEOL 2309 & GEOL 2109 | Mineralogy & Petrology and Mineralogy & Petrology Lab | 4 |
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |
| GEOL 3323 & GEOL 3123 | Structural Geology and Structural Geology Lab | 4 |

| | | |
|--|--|--------------|
| GEOL 3326 & GEOL 3126 | Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy | 4 |
| GEOL 4375 & GEOL 4376 | Field Geology I and Field Geology II | 6 |
| MATH 1312 | Calculus II | 3 |
| Select one of the following: | | 3 |
| GEOL 4385 | Introduction to GIS | |
| GEOP 4336 | Intro. to Remote Sensing | |
| Or any upper-division Environmental Ethics or Environmental Policy Course | | |
| Additional Semester Hours: | | |
| Select 6 hours from courses in BIOL, BOT, CHEM, ESCI, GEOG, GEOL, GEOP, MICR, ZOOL | | 6 |
| Total Hours | | 46-48 |

Environmental Hydrosience

| Code | Title | Hours |
|---|--|-----------|
| Environmental Hydrosience Concentration | | |
| Required Courses: | | |
| ESCI 3306 & ESCI 3106 | Principles of Hydrology and Principles of Hydrology Lab | 4 |
| GEOL 1313 | Intro to Physical Geology | 3 |
| GEOL 1314 | Intro to Historical Geol | 3 |
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |
| GEOL 4335 or GEOL 4373 | Soil Properties & Genesis Grndwater Contam and Reclam | 3 |
| GEOL 4383 | General Hydrogeology | 3 |
| GEOP 3320A | Introduction to Geophysics | 3 |
| GEOP 4350 or GEOL 4375 | Field Geophysics Field Geology I | 3 |
| MATH 1312 | Calculus II | 3 |
| MATH 2326 | Differential Equations | 3 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| PHYS 2320 & PHYS 2120 or PHYS 2420 | Introductory Mechanics and Laboratory for PHYS 2320 Introductory Mechanics | 4 |
| Ethics or Policy: | | |
| Select eleven upper division hours from any courses in CE, CHEM, ESCI, GEOG, GEOL, GEOP | | 11 |
| GEOL 4385 is strongly recommended | | |
| Total Hours | | 49 |

You cannot choose this concentration until you meet three criteria: your UTEP overall GPA must be at least 2.75, your UTEP majors GPA must be at least 2.75, and you must pass the UTEP Qualifying Exam in Science with a score of at least 80%.

7-12 Science

| Code | Title | Hours |
|---|--------------------------|-------|
| Background Check Required | | |
| A complete background check is required of all students who wish to receive teacher certification in the State of Texas. Students will be required to pass a background check before certification will be conferred by the State Board of Educator Certification (SBEC). | | |
| Designated Core | | |
| Required Courses: | | |
| CHEM 1105 | Laboratory for CHEM 1305 | 1 |
| CHEM 1106 | Laboratory for CHEM 1306 | 1 |
| CHEM 1305 | General Chemistry | 3 |
| CHEM 1306 | General Chemistry | 3 |

| | | |
|-----------|------------|---|
| MATH 1411 | Calculus I | 4 |
|-----------|------------|---|

University Core Curriculum

Complete the University Core Curriculum requirements.

| | |
|---|----|
| An applied internship that promotes learning, hands-on experience, and industrial practice by applying international manufacturing management and engineering fundamentals is offered in a local manufacturing plant. | 42 |
|---|----|

Environmental Science Core

| | | |
|-----------|--------------------------------|---|
| ESCI 1101 | Environmental Sci. Lab | 1 |
| ESCI 1301 | Intro to Environmental Sci | 3 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |

Required Courses: ¹

| | | |
|--------------------------|---|---|
| BIOL 1107 | Topics in Study of Life I | 1 |
| BIOL 1108 | Organismal Biology Laboratory | 1 |
| BIOL 1305 | General Biology | 3 |
| BIOL 1306 | Organismal Biology | 3 |
| BIOL 3316 & BIOL 3117 | Ecology and Ecology Laboratory | 4 |
| GEOL 1211 & GEOL 1111 | Principles of Earth Sciences and Principles of Earth Sci - Lab | 3 |
| GEOL 1212 & GEOL 1112 | Principles of Earth Science and Laboratory for Geology 1212 | 3 |
| PHYS 2320 | Introductory Mechanics | 3 |
| PHYS 2120 | Laboratory for PHYS 2320 | 1 |
| PHYS 2321 | Introductory Electromagnetism | 3 |
| PHYS 2121 | Laboratory for PHYS 2321 | 1 |

Additional Semester Hours 5

Select 5 hours from courses in BIOL, BOT, CHEM, ESCI, GEOG, GEOL, GEOP, MICR, ZOOL

Secondary Education Minor

Required Courses:

| | | |
|-----------|--------------------------------|---|
| BED 4317 | Tch & Empwr ELLs in Sec Schls | 3 |
| EDPC 3300 | Intro to Youth Dev & Spec Ed | 3 |
| RED 3342 | Content Area Literacy | 3 |
| SCED 3311 | Curriculum Plan-Secondary Schl | 3 |
| SCED 4368 | Teaching Science in Sec School | 3 |
| SCED 4691 | Student Teaching in Sec School | 6 |

Upper Division Requirement

Select a total of thirty-seven hours of upper division course work ²

Total Hours 120

¹ Although the UTEP choice is larger, the choices satisfy the requirements of both the core and the major.

² A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

University Core Curriculum

The department may make specific suggestions for courses which are most applicable towards your major.

All courses require a C or better

I. Communication (six hours)

| Code | Title | Hours |
|---|--------------------------------|----------|
| Courses in this category focus on developing ideas and expressing them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. | | |
| Select six hours of the following: | | 6 |
| For students whose secondary education was in English: | | |
| COMM 1611 | Written and Oral Communication | |
| ENGL 1313 | Writing About Literature | |
| RWS 1301 | Rhetoric & Composition I | |
| RWS 1302 | Rhetoric & Composition 2 | |
| RWS 1601 | Rhetoric, Composition & Comm | |
| For students whose secondary education was not in English: | | |
| ESOL 1311 | Expos Engl Compos-Spkr Esl | |
| ESOL 1312 | Res & Crit Writng Spkr Esl | |
| Total Hours | | 6 |

II. American History (six hours)

| Code | Title | Hours |
|--|----------------------------|----------|
| Courses in this category focus on the consideration of past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. | | |
| HIST 1301 | History of U.S. to 1865 | 3 |
| HIST 1302 | History of U.S. Since 1865 | 3 |
| Total Hours | | 6 |

III. Language, Philosophy & Culture (three hours)

| Code | Title | Hours |
|--|--------------------------------|----------|
| Courses in this category focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses involve the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. | | |
| Select one of the following: | | 3 |
| AFST 2300 | Intro-African Amer Studies | |
| CHIC 2302 | Latina/o Presence in the U.S. | |
| ENGL 2311 | English Literature | |
| ENGL 2312 | English Literature | |
| ENGL 2313 | Intro to American Fiction | |
| ENGL 2314 | Intro to American Drama | |
| ENGL 2318 | Intro to American Poetry | |
| FREN 2322 | Making of the "Other" Americas | |
| HIST 2301 | World History to 1500 | |
| HIST 2302 | World History Since 1500 | |
| PHIL 1301 | Introduction to Philosophy | |
| PHIL 2306 | Ethics | |
| RS 1301 | Introduct to Religious Studies | |
| SPAN 2340 | Seeing & Naming: Conversations | |
| WS 2300 | Introduction to Womens Studies | |
| WS 2350 | Global Feminisms | |
| Total Hours | | 3 |

IV. Mathematics (three hours)

| Code | Title | Hours |
|---|-------|-------|
| Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience. | | |

Select one of the following: 3

| | |
|-----------|--------------------------------|
| MATH 1309 | College Algebra |
| MATH 1310 | Trigonometry and Conics |
| MATH 1319 | Math in the Modern World |
| MATH 1320 | Math for Social Sciences I |
| MATH 1411 | Calculus I |
| MATH 1508 | Precalculus ^{1,2} |
| MATH 2301 | Math for Social Sciences II |
| STAT 1380 | Statistical Literacy |
| STAT 2480 | Elementary Statistical Methods |

¹ A higher-level course in the calculus sequence can be substituted.

² TCCN MATH 1314 will also satisfy this requirement.

Total Hours 3

V. Life & Physical Sciences (six hours)

Code **Title** **Hours**

Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on experiences.

Select one of the following: 1-4

| | |
|-----------|--------------------------------|
| ASTR 1107 | Astronomy Lab I |
| ASTR 1307 | Elem Astronomy-Solar System |
| ASTR 1308 | Elem Astr Stars & Galaxies |
| BIOL 1103 | Introductory Biology Lab |
| BIOL 1104 | Human Biology Laboratory |
| BIOL 1107 | Topics in Study of Life I |
| BIOL 1108 | Organismal Biology Laboratory |
| BIOL 1203 | Introductory Biology |
| BIOL 1304 | Human Biology |
| BIOL 1305 | General Biology |
| BIOL 1306 | Organismal Biology |
| BIOL 2111 | Human Anat/Physio Lab I |
| BIOL 2113 | Human Anat/Physio Lab II |
| BIOL 2311 | Human Anat/Physiology I |
| BIOL 2313 | Human Anat/Physiology II |
| CHEM 1105 | Laboratory for CHEM 1305 |
| CHEM 1106 | Laboratory for CHEM 1306 |
| CHEM 1107 | Intro General Chemistry Lab |
| CHEM 1108 | Intro Organic & Biochem Lab |
| CHEM 1305 | General Chemistry |
| CHEM 1306 | General Chemistry |
| CHEM 1307 | Intro to General Chemistry |
| CHEM 1308 | Intro Organic & Biochemistry |
| ESCI 1101 | Environmental Sci. Lab |
| ESCI 1102 | Non-major Lab for ESCI 1301 |
| ESCI 1202 | Intro to Environment Science 2 |
| ESCI 1301 | Intro to Environmental Sci |
| GEOG 1106 | Laboratory for GEOG 1306 |
| GEOG 1306 | Physical Geography |
| GEOL 1103 | Lab for GEOL 1313 |
| GEOL 1104 | Lab for GEOL 1314 |
| GEOL 1111 | Principles of Earth Sci - Lab |
| GEOL 1112 | Laboratory for Geology 1212 |

| | |
|-----------|-------------------------------|
| GEOL 1211 | Principles of Earth Sciences |
| GEOL 1212 | Principles of Earth Science |
| GEOL 1230 | The Blue Planet |
| GEOL 1231 | Natural Hazards |
| GEOL 1313 | Intro to Physical Geology |
| GEOL 1314 | Intro to Historical Geol |
| HSCI 2302 | Fundamentals of Nutrition |
| HSCI 2303 | Wellness Dynamics |
| MICR 2330 | Microorganisms and Disease |
| PHYS 1403 | General Physics I |
| PHYS 1404 | General Physics II |
| PHYS 2120 | Laboratory for PHYS 2320 |
| PHYS 2121 | Laboratory for PHYS 2321 |
| PHYS 2320 | Introductory Mechanics |
| PHYS 2321 | Introductory Electromagnetism |

Total Hours 6

VI. Political Science (six hours)

| Code | Title | Hours |
|------|-------|-------|
|------|-------|-------|

Courses in this category focus on consideration of the Constitution of the United States and the constitutions of the states, with special emphasis on that of Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations.

Required Courses:

| | | |
|-----------|---------------------------|---|
| POLS 2310 | Introduction to Politics | 3 |
| POLS 2311 | American Gover & Politics | 3 |

Total Hours 6

VII. Social and Behavioral Sciences (three hours)

| Code | Title | Hours |
|------|-------|-------|
|------|-------|-------|

Courses in this category focus on the application of empirical and scientific methods that contribute to the understanding of what makes us human. Courses involve the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture.

Select one of the following: 3

| | |
|-----------|--------------------------------|
| ANTH 1301 | Intro-Phys Anth/Archeolog |
| ANTH 1302 | Intro-Cultural Anthropology |
| ANTH 1310 | Cultural Geography |
| ANTH 2320 | Intro to Linguistics |
| CE 2326 | Econ for Engrs & Scientists |
| CHIC 2311 | Intro to Chicano Studies |
| ASIA 2300 | Asian American Studies |
| COMM 2350 | Interpersonal Communication |
| COMM 2372 | Mass Media and Society |
| ECON 2303 | Principles of Macroeconomics |
| ECON 2304 | Principles of Microeconomics |
| EDPC 1301 | Introduction to Ed Psychology |
| EDU 1342 | Action Research in Classrooms |
| ENGL 2320 | Introduction to Linguistics |
| GEOG 1310 | Cultural Geography |
| LEAD 2300 | Leadership in Action |
| LING 2320 | Introduction to Linguistics |
| LING 2340 | Lang. Inside & Out: Sel Topics |
| PSYC 1301 | Introduction to Psychology |
| SOCI 1301 | Introduction to Sociology |

SOCI 1310

Cultural Geography

Total Hours**3****VIII. Creative Arts (three hours)**

| Code | Title | Hours |
|------|-------|-------|
|------|-------|-------|

Courses in this category focus on the appreciation and analysis of creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art.

Select one of the following:

3

| | | |
|-----------|-------------------------------|--|
| ART 1300 | Art Appreciation | |
| ARTH 1305 | History of Art I | |
| ARTH 1306 | History of Art II | |
| CHIC 1311 | Chicana/o Fine Arts Appreciat | |
| DANC 1304 | Introduction to Dance | |
| FILM 1390 | Intro-Art of Motion Pict. | |
| MUSL 1324 | Music Appreciation | |
| MUSL 1327 | Jazz to Rock | |
| MUSL 2321 | Music, Culture, and Society | |
| THEA 1313 | Introduction to Theatre | |

Total Hours**3****IX. Component Area Option (six hours)**

| Code | Title | Hours |
|------|-------|-------|
|------|-------|-------|

a. A minimum of 3 SCH must meet the definition and corresponding Core Objectives specified in one of the foundational component areas. b. As an option for up to 3 semester credit hours of the Component Area Option, an institution may select course(s) that: (i) Meet(s) the definition specified for one or more of the foundational component areas; and (ii) Include(s) a minimum of three Core Objectives, including Critical Thinking Skills, Communication Skills, and one of the remaining Core Objectives of the institution's choice.

| | | |
|-----------|--------------------------------|--|
| BUSN 1301 | Intro to Global Business | |
| COMM 1301 | Public Speaking | |
| COMM 1302 | Business/Profession Comm | |
| CS 1310 | Intro-Computational Thinking | |
| CS 1320 | Computer Programming Sci/Engr | |
| EL 1301 | Eng Innovation and Leadership | |
| ENGR 1302 | Engineering Design Experience | |
| ENGR 1303 | Applied Engineering Analysis | |
| LEAD 1300 | Introduction to Leadership | |
| SCI 1301 | Inquiry in Math & Science | |
| SPLP 1312 | Comm. Var. Across the Lifespan | |
| UNIV 1301 | Seminar/Critical Inquiry | |

Total Hours**0****4-Year Sample Degree Plan****BS in Environmental Science- 7-12 Science (Starting with Calculus)**

| Code | Title | Hours |
|------|-------|-------|
|------|-------|-------|

BS ENVIRONMENTAL SCIENCE- 7-12 SCIENCE (STARTING WITH CALCULUS)**FRESHMAN****Fall**

| | | |
|--------------------------|--|---|
| BIOL 1305 & BIOL 1107 | General Biology and Topics in Study of Life I | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| MATH 1411 | Calculus I (*) | 4 |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |

Spring

| | | |
|--------------------------------|---|------------|
| BIOL 1306 & BIOL 1108 | Organismal Biology and Organismal Biology Laboratory | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1312 | Calculus II | 3 |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| SOPHOMORE | | |
| Fall | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| GEOL 1211 & GEOL 1111 | Principles of Earth Sciences and Principles of Earth Sci - Lab | 3 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| JUNIOR | | |
| Fall | | |
| COMM 1301 | Public Speaking (*) | 3 |
| BIOL 3316 & BIOL 3117 | Ecology and Ecology Laboratory | 4 |
| GEOL 1212 & GEOL 1112 | Principles of Earth Science and Laboratory for Geology 1212 | 3 |
| RED 3342 | Content Area Literacy | 3 |
| PHYS 2321 & PHYS 2121 | Introductory Electromagnetism and Laboratory for PHYS 2321 | 4 |
| Spring | | |
| POLS 2310 | Introduction to Politics | 3 |
| PHIL 2306 | Ethics | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| SCED 4368 | Teaching Science in Sec School | 3 |
| BED 4317 | Tch & Empwr ELLs in Sec Schls | 3 |
| Environmental Science Elective | | 3 |
| SENIOR | | |
| Fall | | |
| POLS 2311 | American Gover & Politics | 3 |
| ESCI 4301 | Senior Project | 3 |
| EDPC 3300 | Intro to Youth Dev & Spec Ed | 3 |
| SCED 3311 | Curriculum Plan-Secondary Schl | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Environmental Science Elective | | 2 |
| Spring | | |
| SCED 4691 | Student Teaching in Sec School | 6 |
| Total Hours | | 123 |

BS in Environmental Science- 7-12 Science (Starting with Pre-Calculus)

| Code | Title | Hours |
|--|---|-------|
| BS ENVIRONMENTAL SCIENCE- 7-12 SCIENCE (STARTING WITH PRE-CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| BIOL 1305 & BIOL 1107 | General Biology and Topics in Study of Life I | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| MATH 1508 | Precalculus | 5 |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| Spring | | |
| BIOL 1306 & BIOL 1108 | Organismal Biology and Organismal Biology Laboratory | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| SOPHOMORE | | |
| Fall | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| MATH 1312 | Calculus II | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| Spring | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| GEOL 1211 & GEOL 1111 | Principles of Earth Sciences and Principles of Earth Sci - Lab | 3 |
| PHYS 2321 & PHYS 2121 | Introductory Electromagnetism and Laboratory for PHYS 2321 | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| JUNIOR | | |
| Fall | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| COMM 1301 | Public Speaking (*) | 3 |
| BIOL 3316 & BIOL 3117 | Ecology and Ecology Laboratory | 4 |
| GEOL 1212 & GEOL 1112 | Principles of Earth Science and Laboratory for Geology 1212 | 3 |
| RED 3342 | Content Area Literacy | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Spring | | |
| POLS 2310 | Introduction to Politics | 3 |
| PHIL 2306 | Ethics | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| BED 4317 | Tch & Empwr ELLs in Sec Schls | 3 |

| | | |
|--------------------------------|--------------------------------|------------|
| SCED 4368 | Teaching Science in Sec School | 3 |
| Environmental Science Elective | | 3 |
| SENIOR | | |
| Fall | | |
| POLS 2311 | American Gover & Politics | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| ESCI 4301 | Senior Project | 3 |
| EDPC 3300 | Intro to Youth Dev & Spec Ed | 3 |
| SCED 3311 | Curriculum Plan-Secondary Schl | 3 |
| Environmental Science Elective | | 2 |
| Spring | | |
| SCED 4691 | Student Teaching in Sec School | 6 |
| Total Hours | | 128 |

BS in Environmental Science- Environmental Biology (Starting with Calculus)

| Code | Title | Hours |
|---|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL BIOLOGY (STARTING WITH CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| BIOL 1305 & BIOL 1107 | General Biology and Topics in Study of Life I | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| BIOL 1306 & BIOL 1108 | Organismal Biology and Organismal Biology Laboratory | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| SOPHOMORE | | |
| Fall | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| COMM 1301 | Public Speaking (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| Spring | | |
| POLS 2310 | Introduction to Politics | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| BIOL 3316 & BIOL 3117 | Ecology and Ecology Laboratory | 4 |
| Lower Division Elective | | 3 |
| JUNIOR | | |
| Fall | | |
| POLS 2311 | American Gover & Politics | 3 |

| | | |
|--------------------------|---|------------|
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| Lower Division Elective | | 4 |
| Upper Division Elective | | 4 |
| Spring | | |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| BIOL 4428 | Global Change Ecology | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 3 |
| SENIOR | | |
| Fall | | |
| PHIL 2306 | Ethics | 3 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper Division Elective | | 3 |
| Spring | | |
| Open Elective | | 4 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 3 |
| Total Hours | | 120 |

BS in Environmental Science- Environmental Biology (Starting with Pre-Calculus)

| Code | Title | Hours |
|---|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL BIOLOGY (STARTING WITH PRE-CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1508 | Precalculus | 5 |
| BIOL 1305 & BIOL 1107 | General Biology and Topics in Study of Life I | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| BIOL 1306 & BIOL 1108 | Organismal Biology and Organismal Biology Laboratory | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| SOPHOMORE | | |
| Fall | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| Spring | | |
| COMM 1301 | Public Speaking (*) | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |

| | | |
|--------------------------|---|------------|
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| BIOL 3316 & BIOL 3117 | Ecology and Ecology Laboratory | 4 |
| Lower Division Elective | | 3 |
| JUNIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| Lower Division Elective | | 4 |
| Upper Division Elective | | 3 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| BIOL 4428 | Global Change Ecology | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 3 |
| SENIOR | | |
| Fall | | |
| PHIL 2306 | Ethics | 3 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper Division Elective | | 3 |
| Spring | | |
| Open Elective | | 4 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 3 |
| Upper Division Elective | | 4 |
| Total Hours | | 125 |

BS in Environmental Science- Environmental Chemistry (Starting with Calculus)

| Code | Title | Hours |
|--|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL CHEMISTRY(STARTING WITH CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1312 | Calculus II | 3 |
| SOPHOMORE | | |
| Fall | | |

| | | |
|--------------------------|---|------------|
| ART 1300 | Art Appreciation (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| CHEM 2321 & CHEM 2221 | Organic Chemistry I and Organic Chemistry I Lab | 5 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| PHYS 2321 & PHYS 2121 | Introductory Electromagnetism and Laboratory for PHYS 2321 | 4 |
| CHEM 2322 | Organic Chemistry II | 3 |
| JUNIOR | | |
| Fall | | |
| COMM 1301 | Public Speaking (*) | 3 |
| MATH 2313 | Calculus III | 3 |
| CHEM 3351 & CHEM 3151 | Physical Chemistry I and Lab for Chemistry 3351 | 4 |
| CHEM 3310 & CHEM 3110 | Analytical Chemistry and Lab for Chemistry 3310 | 4 |
| Spring | | |
| PHIL 2306 | Ethics | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| Course Elective | | 3 |
| CHEM 4211 & CHEM 4212 | Instrumental Meths Analyt Chem and Lab for Chemistry 4211 | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| SENIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| CHEM 3330 | Biochem I:Struc & Function | 3 |
| Upper Division Elective | | 3 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper Division Elective | | 3 |
| Course Elective | | 3 |
| Total Hours | | 120 |

BS in Environmental Science- Environmental Chemistry (Starting with Pre-Calculus)

| Code | Title | Hours |
|---|---|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL CHEMISTRY (STARTING WITH PRE-CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| MATH 1508 | Precalculus | 5 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |

| | | |
|--------------------------|---|---|
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| SOPHOMORE | | |
| Fall | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| CHEM 2321 & CHEM 2221 | Organic Chemistry I and Organic Chemistry I Lab | 5 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| PHYS 2321 & PHYS 2121 | Introductory Electromagnetism and Laboratory for PHYS 2321 | 4 |
| CHEM 2322 | Organic Chemistry II | 3 |
| MATH 1312 | Calculus II | 3 |
| JUNIOR | | |
| Fall | | |
| COMM 1301 | Public Speaking (*) | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| MATH 2313 | Calculus III | 3 |
| CHEM 3310 & CHEM 3110 | Analytical Chemistry and Lab for Chemistry 3310 | 4 |
| CHEM 3351 & CHEM 3151 | Physical Chemistry I and Lab for Chemistry 3351 | 4 |
| Spring | | |
| PHIL 2306 | Ethics | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| CHEM 4211 & CHEM 4212 | Instrumental Meths Analyt Chem and Lab for Chemistry 4211 | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| Upper Division Elective | | 3 |
| SENIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| CHEM 3330 | Biochem I:Struc & Function | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| Course Elective | | 3 |
| Upper Division Elective | | 3 |

| | |
|--------------------|------------|
| Course Elective | 3 |
| Total Hours | 125 |

BS in Environmental Science- Environmental Geoscience (Starting with Calculus)

| Code | Title | Hours |
|--|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL GEOSCIENCE (STARTING WITH CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| GEOL 1313 & GEOL 1103 | Intro to Physical Geology and Lab for GEOL 1313 | 4 |
| Spring | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1312 | Calculus II | 3 |
| GEOL 1314 & GEOL 1104 | Intro to Historical Geol and Lab for GEOL 1314 | 4 |
| SOPHOMORE | | |
| Fall | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| GEOL 2309 & GEOL 2109 | Mineralogy & Petrology and Mineralogy & Petrology Lab | 4 |
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| Component Area | | 3 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| JUNIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| GEOL 3326 & GEOL 3126 | Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy | 4 |
| GEOL 3323 & GEOL 3123 | Structural Geology and Structural Geology Lab | 4 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| Language, Philosophy, and Culture | | 3 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| ESCI 3192 | Prof. Development in ESCI | 1 |

SENIOR**Fall**

| | | |
|-------------------------------|-----------------|---|
| Creative Arts | | 3 |
| Social and Behavioral Science | | 3 |
| ESCI 4301 | Senior Project | 3 |
| GEOL 4375 | Field Geology I | 3 |
| Upper Division Elective | | 3 |

Spring

| | | |
|-------------------------|--------------------------|---|
| GEOP 4336 | Intro. to Remote Sensing | 3 |
| GEOL 4376 | Field Geology II | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper Division Elective | | 3 |

| | | |
|--------------------|--|------------|
| Total Hours | | 119 |
|--------------------|--|------------|

BS in Environmental Science- Environmental Geoscience (Starting with Pre-Calculus)

| Code | Title | Hours |
|-------------|--------------|--------------|
|-------------|--------------|--------------|

BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL GEOSCIENCE (STARTING WITH PRE-CALCULUS)**FRESHMAN****Fall**

| | | |
|--------------------------|--|---|
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1508 | Precalculus | 5 |
| GEOL 1313 & GEOL 1103 | Intro to Physical Geology and Lab for GEOL 1313 | 4 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |

Spring

| | | |
|--------------------------|---|---|
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| GEOL 1314 & GEOL 1104 | Intro to Historical Geol and Lab for GEOL 1314 | 4 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1411 | Calculus I | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |

SOPHOMORE**Fall**

| | | |
|--------------------------|--|---|
| RWS 1301 | Rhetoric & Composition I | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| GEOL 2309 & GEOL 2109 | Mineralogy & Petrology and Mineralogy & Petrology Lab | 4 |
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |

Spring

| | | |
|--------------------------|---|---|
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| MATH 1312 | Calculus II | 3 |

JUNIOR**Fall**

| | | |
|-----------|--------------------------|---|
| POLS 2310 | Introduction to Politics | 3 |
|-----------|--------------------------|---|

| | | |
|-----------------------------------|--|------------|
| ESCI 4398 | Environmental Sci. Internship | 3 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| GEOL 3323 & GEOL 3123 | Structural Geology and Structural Geology Lab | 4 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| Language, Philosophy, and Culture | | 3 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| GEOL 3326 & GEOL 3126 | Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| Upper Division Elective | | 3 |
| SENIOR | | |
| Fall | | |
| Creative Arts | | 3 |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| GEOL 4375 | Field Geology I | 3 |
| GEOP 4336 | Intro. to Remote Sensing | 3 |
| Spring | | |
| Component Area | | 3 |
| Social & Behavioral Sciences | | 3 |
| GEOL 4376 | Field Geology II | 3 |
| Upper Division Elective | | 3 |
| Total Hours | | 124 |

BS in Environmental Science- Environmental Hydrosience (Starting with Calculus)

| Code | Title | Hours |
|--|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL HYDROSCIENCE (STARTING WITH CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| GEOL 1313 | Intro to Physical Geology | 3 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |
| GEOL 1314 | Intro to Historical Geol | 3 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1312 | Calculus II | 3 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| SOPHOMORE | | |
| Fall | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| MATH 2326 | Differential Equations | 3 |
| ESCI 3306 & ESCI 3106 | Principles of Hydrology and Principles of Hydrology Lab | 4 |

| | | |
|-------------------------------|--|------------|
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| COMM 1301 | Public Speaking (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| JUNIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| GEOL 4335 or GEOL 4373 | Soil Properties & Genesis Grndwater Contam and Reclam | 3 |
| GEOP 3320A | Introduction to Geophysics | 3 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| PHIL 2306 | Ethics | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| GEOL 4383 | General Hydrogeology | 3 |
| Upper/Lower Division Elective | | 2 |
| SENIOR | | |
| Fall | | |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| ESCI 4301 | Senior Project | 3 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| GEOL 4375 or GEOP 4350 | Field Geology I Field Geophysics | 3 |
| Upper/Lower Division Elective | | 3 |
| Spring | | |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper/Lower Division Elective | | 3 |
| Upper/Lower Division Elective | | 3 |
| Total Hours | | 120 |

BS in Environmental Science- Environmental Hydrosience (Starting with Pre-Calculus)

| Code | Title | Hours |
|--|--|-------|
| BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL HYDROSCIENCE (STARTING WITH PRE-CALCULUS) | | |
| FRESHMAN | | |
| Fall | | |
| UNIV 1301 | Seminar/Critical Inquiry | 3 |
| HIST 1301 | History of U.S. to 1865 | 3 |
| MATH 1508 | Precalculus | 5 |
| GEOL 1313 | Intro to Physical Geology | 3 |
| ESCI 1301 & ESCI 1101 | Intro to Environmental Sci and Environmental Sci. Lab | 4 |
| Spring | | |
| HIST 1302 | History of U.S. Since 1865 (*) | 3 |

| | | |
|-------------------------------|--|------------|
| GEOL 1314 | Intro to Historical Geol | 3 |
| ESCI 1310 | Field Methods in Env Science | 3 |
| MATH 1411 | Calculus I (*) | 4 |
| CHEM 1305 & CHEM 1105 | General Chemistry and Laboratory for CHEM 1305 | 4 |
| SOPHOMORE | | |
| Fall | | |
| RWS 1301 | Rhetoric & Composition I (*) | 3 |
| ESCI 3204 | Research Exp in Envi Science 1 | 2 |
| MATH 1312 | Calculus II | 3 |
| ESCI 3306 & ESCI 3106 | Principles of Hydrology and Principles of Hydrology Lab | 4 |
| GEOL 3312 & GEOL 3112 | Geoscience Processes and Geoscience Processes Lab | 4 |
| Spring | | |
| RWS 1302 | Rhetoric & Composition 2 (*) | 3 |
| COMM 1301 | Public Speaking (*) | 3 |
| ESCI 3105 | Research Exp in Envi Science 2 | 1 |
| ESCI 3201 | Environmental Policy & Law | 2 |
| CHEM 1306 & CHEM 1106 | General Chemistry and Laboratory for CHEM 1306 | 4 |
| MATH 2326 | Differential Equations | 3 |
| JUNIOR | | |
| Fall | | |
| POLS 2310 | Introduction to Politics | 3 |
| ART 1300 | Art Appreciation (*) | 3 |
| PHYS 2320 & PHYS 2120 | Introductory Mechanics and Laboratory for PHYS 2320 | 4 |
| GEOL 4335 or GEOL 4373 | Soil Properties & Genesis Grndwater Contam and Reclam | 3 |
| GEOP 3320A | Introduction to Geophysics | 3 |
| Spring | | |
| POLS 2311 | American Gover & Politics | 3 |
| PHIL 2306 | Ethics | 3 |
| PSYC 1301 | Introduction to Psychology (*) | 3 |
| STAT 2480 | Elementary Statistical Methods | 4 |
| GEOL 4383 | General Hydrogeology | 3 |
| SENIOR | | |
| Fall | | |
| ESCI 4301 | Senior Project | 3 |
| ESCI 4398 | Environmental Sci. Internship | 3 |
| PHYS 2230 | Thermal and Fluid Physics | 2 |
| GEOL 4375 or GEOP 4350 | Field Geology I Field Geophysics | 3 |
| Upper/Lower Division Elective | | 3 |
| Spring | | |
| ESCI 3192 | Prof. Development in ESCI | 1 |
| ESCI 4320 | Monitoring Regional Sust | 3 |
| Upper/Lower Division Elective | | 2 |
| Upper/Lower Division Elective | | 3 |
| Upper/Lower Division Elective | | 3 |
| Total Hours | | 125 |