

# BS in Environmental Science

The Environmental Science Program offers students an interdisciplinary degree plan in which the student selects a concentration area in Environmental Biology, Environmental Chemistry, Environmental Geosciences or Environmental Hydrosciences.

Employment projections from the U.S. Bureau of Labor Statistics (BLS) indicate an overall 4.9% increase in geoscience jobs between 2019 and 2029, from 460,242 jobs in 2019 to 482,726 jobs in 2029. For comparison, the projected growth of the U.S. workforce over the same timeframe is expected to be 3.7%. Growth rates for individual geoscience occupations range between 0% and 8.4% for all but geoscience engineering managers (-1%).

## 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
<b>Designated Core (All courses require a grade of C or better)</b>		
<b>Required Courses: <sup>1</sup></b>		
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
<b>University Core Curriculum</b>		
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
<b>Environmental Science Core</b>		
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 <sup>1</sup>

**Total Hours** 120

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

**Concentrations****Environmental Biology**

Code	Title	Hours
<b>Environmental Biology Concentration</b>		
<b>Required Courses:</b>		
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	Environmnt Stressor in Ecosyst	4
<b>Select eight hours of the following:</b>		<b>8</b>
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	
<b>Select 14 hours of the following:</b>		<b>14</b>
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	Genetic, Env & Evol - Anim Beh	
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	
<b>Additional Semester Hours</b>		<b>11</b>

Select 11 hours from courses in BIOL, BOT, CHEM, ESCI, GEOG, GEOL, MICR, ZOO

**Total Hours** **49**

## Environmental Chemistry

Code	Title	Hours
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### 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
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### 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

<b>Select one of the following:</b>	<b>3</b>
GEOL 4385 Introduction to GIS	
GEOP 4336 Intro. to Remote Sensing	
Or any upper-division Environmental Ethics or Environmental Policy Course	
<b>Additional Semester Hours:</b>	
Select 6 hours from courses in BIOL, BOT, CHEM, ESCI, GEOG, GEOL, GEOP, MICR, ZOOL	6
<b>Total Hours</b>	<b>46-48</b>

## Environmental Hydroscience

Code	Title	Hours
<b>Environmental Hydroscience Concentration</b>		
<b>Required Courses:</b>		
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	Introductory Mechanics	3
PHYS 2120	Laboratory for PHYS 2320	1
PHYS 2321	Introductory Electromagnetism	3
PHYS 2121	Laboratory for PHYS 2321	1
<b>Ethics or Policy:</b>		
Select eleven upper division hours from any courses in CE, CHEM, ESCI, GEOG, GEOL, GEOP		11
GEOL 4385 is strongly recommended		
<b>Total Hours</b>		<b>53</b>

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
<b>Background Check Required</b>		
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).		
<b>Designated Core</b>		
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
<b>University Core Curriculum</b>		
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: <sup>1</sup>

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:

EDPC 3300	Intro to Youth Dev & Spec Ed	3
RED 3342	Content Area Literacy	3
SCED 3311	Curriculum Plan-Secondary Schl	3
SCED 3317	Multicultural Ed in Sec School	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 <sup>2</sup>

**Total Hours** 120

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

<sup>2</sup>  
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
The objective of the communication component is to enable the student to communicate effectively in clear and correct prose or orally in a style 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	
<b>Total Hours</b>		<b>6</b>

**II. American History (six hours)**

Code	Title	Hours
The objectives of the history component are to expand students' knowledge of the origin and history of the U.S., their comprehension of the past and current role of the U.S. in the world, and their ability to critically evaluate and analyze historical evidence. U.S. history courses (three hours must be Texas history) include:		
HIST 1301	History of U.S. to 1865	3
HIST 1302	History of U.S. Since 1865	3
<b>Total Hours</b>		<b>6</b>

**III. Language, Philosophy & Culture (three hours)**

Code	Title	Hours
The objective of the humanities component is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature and philosophy, students engage in critical analysis and develop an appreciation of the humanities as fundamental to the health and survival of any society.		
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	
<b>Total Hours</b>		<b>3</b>

**IV. Mathematics (three hours)**

Code	Title	Hours
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The objective of the mathematics component is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

Select one of the following:	3
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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 <sup>1,2</sup>
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.

<b>Total Hours</b>	<b>3</b>
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**V. Life & Physical Sciences (six hours)**

Code	Title	Hours
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The objective of the study of the natural sciences is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories. The courses listed are for non-majors; the major courses in the discipline can be substituted for the non-major sequence. A minimum of two semesters of lecture and one semester of laboratory associated with one of the courses, or two semesters of combined (3 credit) lecture-laboratory courses (Only six hours apply toward the required 42.):

Select one of the following:	1-4
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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
The objectives of the political science component are to expand students' knowledge of the origin and evolution of the U.S. and Texas political systems, focusing on the growth of political institutions, and on the constitutions of Texas and the United States; and to enhance their understanding of federalism, states rights, and individual civil liberties, rights, and responsibilities.		
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
The objective of the social and behavioral science component is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.		
Select one of the following:		
ANTH 1301	Intro-Phys Anth/Archeolog	3
ANTH 1302	Intro-Cultural Anthropology	
ANTH 1310	Cultural Geography	
ANTH 2320	Intro to Linguistics	
CE 2326	Econ for Engrs & Scientists	
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	Community Service
LING 2320	An Intro. 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
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The objective of the visual and performing arts component is to expand students' knowledge and appreciation of the human imagination as expressed through works of visual art, dance, music, theatre and film. Through study in these disciplines, students will form aesthetic judgments and develop an appreciation of the arts as fundamental to the health and survival of any society.

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	Dance Appreciation
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
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The objective of the institutionally designated option component is to develop the critical thinking skills and academic tools required to be an effective learner. Special emphasis is placed on the use of technology in problem-solving, communications, and knowledge acquisition.

Select two of the following: 6

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
LEAD 1300	Introduction to Leadership
SCI 1301	Inquiry in Math & Science
UNIV 1301	Seminar/Critical Inquiry

**Total Hours** **6**

## 4-Year Sample Degree Plan

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

Code	Title	Hours
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#### 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
<b>Spring</b>		
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
<b>SOPHOMORE</b>		
<b>Fall</b>		
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
ESCI 3204	Research Exp in Envi Science 1	2
HIST 1302	History of U.S. Since 1865 (*)	3
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
STAT 2480	Elementary Statistical Methods	4
<b>Spring</b>		
ART 1300	Art Appreciation (*)	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
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
<b>JUNIOR</b>		
<b>Fall</b>		
BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory	4
COMM 1301	Public Speaking (*)	3
GEOG 3306	Weather and Climate	3
RWS 1302	Rhetoric & Composition 2 (*)	3
SCED 4368	Teaching Science in Sec School	3
<b>Spring</b>		
PHIL 2306	Ethics	3
PSYC 1301	Introduction to Psychology (*)	3
POLS 2310	Introduction to Politics	3
RED 3342	Content Area Literacy	3
<b>SENIOR</b>		
<b>Fall</b>		
BIOL 4225	Field Biology	2
EDPC 3300	Intro to Youth Dev & Spec Ed	3
ESCI 4301	Senior Project	3
POLS 2311	American Gover & Politics	3
SCED 3311	Curriculum Plan-Secondary Schl	3
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4320	Monitoring Regional Sust	3
SCED 3317	Multicultural Ed in Sec School	3

SCED 4691	Student Teaching in Sec School	6
<b>Total Hours</b>		<b>120</b>

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

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- 7-12 SCIENCE (STARTING WITH PRE-CALCULUS)</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
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
<b>Spring</b>		
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
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
<b>SOPHOMORE</b>		
<b>Fall</b>		
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
ESCI 3204	Research Exp in Envi Science 1	2
MATH 1312	Calculus II	3
RWS 1301	Rhetoric & Composition I (*)	3
STAT 2480	Elementary Statistical Methods	4
<b>Spring</b>		
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
GEOL 1211 & GEOL 1111	Principles of Earth Sciences and Principles of Earth Sci - Lab	3
HIST 1302	History of U.S. Since 1865 (*)	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
<b>JUNIOR</b>		
<b>Fall</b>		
BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory	4
COMM 1301	Public Speaking (*)	3
GEOG 3306	Weather and Climate	3
RWS 1302	Rhetoric & Composition 2 (*)	3
SCED 4368	Teaching Science in Sec School	3
<b>Spring</b>		
ART 1300	Art Appreciation (*)	3
PHIL 2306	Ethics	3
POLS 2310	Introduction to Politics	3
RED 3342	Content Area Literacy	3
Course Elective		3

**SENIOR**

<b>Fall</b>		
BIOL 4225	Field Biology	2
EDPC 3300	Intro to Youth Dev & Spec Ed	3
ESCI 4301	Senior Project	3
POLS 2311	American Gover & Politics	3
SCED 3311	Curriculum Plan-Secondary Schl	3
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4320	Monitoring Regional Sust	3
SCED 3317	Multicultural Ed in Sec School	3
PSYC 1301	Introduction to Psychology (*)	3
SCED 4691	Student Teaching in Sec School	6
<b>Total Hours</b>		<b>128</b>

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

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

CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
POLS 2311	American Gover & Politics	3
Lower Division Elective		4
Upper Division Elective		4
<b>Spring</b>		
BIOL 4428	Environmnt Stressor in Ecosyst	4
ESCI 4398	Environmental Sci. Internship	3
Upper Division Elective		3
Upper Division Elective		3
<b>SENIOR</b>		
<b>Fall</b>		
PHIL 2306	Ethics	3
ESCI 3192	Prof. Development in ESCI	1
ESCI 4301	Senior Project	3
ESCI 4320	Monitoring Regional Sust	3
Upper Division Elective		3
<b>Spring</b>		
Open Elective		4
Upper Division Elective		3
Upper Division Elective		3
Upper Division Elective		3
<b>Total Hours</b>		<b>121</b>

**BS in Environmental Science- Environmental Biology (Staring with Pre-Calculus)**

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL BIOLOGY (STARTING WITH PRE-CALCULUS)</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
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
HIST 1301	History of U.S. to 1865	3
MATH 1508	Precalculus	5
UNIV 1301	Seminar/Critical Inquiry	3
<b>Spring</b>		
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
ESCI 1310	Field Methods in Env Science	3
HIST 1302	History of U.S. Since 1865 (*)	3
MATH 1411	Calculus I (*)	4
RWS 1301	Rhetoric & Composition I (*)	3
<b>SOPHOMORE</b>		
<b>Fall</b>		
ART 1300	Art Appreciation (*)	3
ESCI 3204	Research Exp in Envi Science 1	2
RWS 1302	Rhetoric & Composition 2 (*)	3
STAT 2480	Elementary Statistical Methods	4
Lower Division Elective		4
<b>Spring</b>		
COMM 1301	Public Speaking (*)	3

BIOL 3316 & BIOL 3117	Ecology and Ecology Laboratory	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
ESCI 3105	Research Exp in Envi Science 2	1
ESCI 3201	Environmental Policy & Law	2
PSYC 1301	Introduction to Psychology (*)	3

**JUNIOR****Fall**

CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
ESCI 4398	Environmental Sci. Internship	3
POLS 2310	Introduction to Politics	3
Lower Division Elective		4
Upper Division Elective		4

**Spring**

BIOL 4428	Environmnt Stressor in Ecosyst	4
POLS 2311	American Gover & Politics	3
Upper Division Elective		3
Upper Division Elective		3

**SENIOR****Fall**

PHIL 2306	Ethics	3
ESCI 3192	Prof. Development in ESCI	1
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

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<b>Total Hours</b>		<b>126</b>
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**BS in Environmental Science- Environmental Chemistry (Starting with Calculus)**

Code	Title	Hours
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**BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL CHEMISTRY(STARTING WITH CALCULUS)****FRESHMAN****Fall**

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
HIST 1301	History of U.S. to 1865	3
MATH 1411	Calculus I (*)	4
UNIV 1301	Seminar/Critical Inquiry	3

**Spring**

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
RWS 1301	Rhetoric & Composition I (*)	3
HIST 1302	History of U.S. Since 1865 (*)	3

**SOPHOMORE**

<b>Fall</b>		
ART 1300	Art Appreciation (*)	3
CHEM 2321 & CHEM 2221	Organic Chemistry I and Organic Chemistry I Lab	5
ESCI 3204	Research Exp in Envi Science 1	2
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
STAT 2480	Elementary Statistical Methods	4
<b>Spring</b>		
CHEM 2322	Organic Chemistry II	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
PSYC 1301	Introduction to Psychology (*)	3
RWS 1302	Rhetoric & Composition 2 (*)	3

**JUNIOR**

<b>Fall</b>		
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
<b>Spring</b>		
PHIL 2306	Ethics	3
ESCI 4398	Environmental Sci. Internship	3
CHEM 3352 & CHEM 3152	Physical Chemistry II and Lab for Chemistry 3352	4
CHEM 4211 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211	4

**SENIOR**

<b>Fall</b>		
CHEM 3330	Biochem I:Struc & Function	3
ESCI 4301	Senior Project	3
ESCI 3192	Prof. Development in ESCI	1
POLS 2310	Introduction to Politics	3
Upper Division Elective		3
<b>Spring</b>		
ESCI 4320	Monitoring Regional Sust	3
POLS 2311	American Gover & Politics	3
Course Elective		3
Upper Division Elective		3

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**Total Hours** **121**
**BS in Environmental Science- Environmental Chemistry (Starting with Pre-Calculus)**

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL CHEMISTRY (STARTING WITH PRE-CALCULUS)</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
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
MATH 1508	Precalculus	5
UNIV 1301	Seminar/Critical Inquiry	3
<b>Spring</b>		
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
ESCI 1310	Field Methods in Env Science	3
HIST 1301	History of U.S. to 1865	3
MATH 1411	Calculus I (*)	4
RWS 1301	Rhetoric & Composition I (*)	3
<b>SOPHOMORE</b>		
<b>Fall</b>		
HIST 1302	History of U.S. Since 1865 (*)	3
CHEM 2321 & CHEM 2221	Organic Chemistry I and Organic Chemistry I Lab	5
ESCI 3204	Research Exp in Envi Science 1	2
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
STAT 2480	Elementary Statistical Methods	4
<b>Spring</b>		
CHEM 2322	Organic Chemistry II	3
ESCI 3105	Research Exp in Envi Science 2	1
ESCI 3201	Environmental Policy & Law	2
MATH 1312	Calculus II	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
RWS 1302	Rhetoric & Composition 2 (*)	3
<b>JUNIOR</b>		
<b>Fall</b>		
ART 1300	Art Appreciation (*)	3
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
<b>Spring</b>		
PHIL 2306	Ethics	3
PSYC 1301	Introduction to Psychology (*)	3
CHEM 3352 & CHEM 3152	Physical Chemistry II and Lab for Chemistry 3352	4
CHEM 4211 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211	4
Upper Division Elective		3
<b>SENIOR</b>		
<b>Fall</b>		
CHEM 3330	Biochem I:Struc & Function	3
ESCI 4320	Monitoring Regional Sust	3
ESCI 4301	Senior Project	3
POLS 2310	Introduction to Politics	3
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4398	Environmental Sci. Internship	3



POLS 2311	American Gover & Politics	3
Course Elective		3
Upper Division Elective		3
<b>Total Hours</b>		<b>126</b>

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

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

GEOP 4336 or GEOP 4385	Intro. to Remote Sensing	3
POLS 2311	American Gover & Politics	3
<b>SENIOR</b>		
<b>Fall</b>		
Creative Arts		3
ESCI 4301	Senior Project	3
GEOL 4375	Field Geology I	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4320	Monitoring Regional Sust	3
ESCI 4398	Environmental Sci. Internship	3
GEOL 4376	Field Geology II	3
Upper Division Elective		3
<b>Total Hours</b>		<b>120</b>

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

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL GEOSCIENCE (STARTING WITH PRE-CALCULUS)</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
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
MATH 1508	Precalculus	5
HIST 1301	History of U.S. to 1865	3
UNIV 1301	Seminar/Critical Inquiry	3
<b>Spring</b>		
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
ESCI 1310	Field Methods in Env Science	3
GEOL 1314 & GEOL 1104	Intro to Historical Geol and Lab for GEOL 1314	4
HIST 1302	History of U.S. Since 1865 (*)	3
MATH 1411	Calculus I	4
<b>SOPHOMORE</b>		
<b>Fall</b>		
ESCI 3204	Research Exp in Envi Science 1	2
GEOL 2309 & GEOL 2109	Mineralogy & Petrology and Mineralogy & Petrology Lab	4
GEOL 3312 & GEOL 3112	Geoscience Processes and Geoscience Processes Lab	4
RWS 1301	Rhetoric & Composition I	3
STAT 2480	Elementary Statistical Methods	4
<b>Spring</b>		
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
MATH 1312	Calculus II	3

RWS 1302	Rhetoric & Composition 2 (*)	3
<b>JUNIOR</b>		
<b>Fall</b>		
ESCI 4398	Environmental Sci. Internship	3
GEOL 3323 & GEOL 3123	Structural Geology and Structural Geology Lab	4
GEOL 3326 & GEOL 3126	Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy	4
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
POLS 2310	Introduction to Politics	3
<b>Spring</b>		
Language, Philosophy, and Culture		3
PHYS 2230	Thermal and Fluid Physics	2
GEOP 4336 or GEOP 4385	Intro. to Remote Sensing	3
POLS 2311	American Gover & Politics	3
<b>SENIOR</b>		
<b>Fall</b>		
Social & Behavioral Sciences		3
Creative Arts		3
ESCI 4301	Senior Project	3
ESCI 4320	Monitoring Regional Sust	3
GEOL 4375	Field Geology I	3
Upper Division Elective		3
<b>Spring</b>		
Component Area		3
ESCI 3192	Prof. Development in ESCI	1
GEOL 4376	Field Geology II	3
Upper Division Elective		3
Upper Division Elective		3
<b>Total Hours</b>		<b>127</b>

## BS in Environmental Science- Environmental Hydroscience (Starting with Calculus)

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL HYDROSCIENCE (STARTING WITH CALCULUS)</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
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
MATH 1411	Calculus I (*)	4
HIST 1301	History of U.S. to 1865	3
UNIV 1301	Seminar/Critical Inquiry	3
<b>Spring</b>		
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
ESCI 1310	Field Methods in Env Science	3
GEOL 1314 & GEOL 1104	Intro to Historical Geol and Lab for GEOL 1314	4
HIST 1302	History of U.S. Since 1865 (*)	3
MATH 1312	Calculus II	3

**SOPHOMORE**

<b>Fall</b>		
ESCI 3204	Research Exp in Envi Science 1	2
GEOL 2309 & GEOL 2109	Mineralogy & Petrology and Mineralogy & Petrology Lab	4
GEOL 3312 & GEOL 3112	Geoscience Processes and Geoscience Processes Lab	4
MATH 2326	Differential Equations	3
RWS 1301	Rhetoric & Composition I (*)	3
<b>Spring</b>		
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
COMM 1301	Public Speaking (*)	3
ESCI 3105	Research Exp in Envi Science 2	1
ESCI 3201	Environmental Policy & Law	2
RWS 1302	Rhetoric & Composition 2 (*)	3
<b>JUNIOR</b>		
<b>Fall</b>		
ART 1300	Art Appreciation (*)	3
GEOL 3323 & GEOL 3123	Structural Geology and Structural Geology Lab	4
GEOL 3326 & GEOL 3126	Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy	4
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
POLS 2310	Introduction to Politics	3
<b>Spring</b>		
GEOL 4316	Geochemistry	3
GEOL 4383	General Hydrogeology	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
PHIL 2306	Ethics	3
POLS 2311	American Gover & Politics	3
<b>SENIOR</b>		
<b>Fall</b>		
ESCI 4301	Senior Project	3
GEOL 4375	Field Geology I	3
PHYS 2230	Thermal and Fluid Physics	2
PSYC 1301	Introduction to Psychology (*)	3
Course Elective		3
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4398	Environmental Sci. Internship	3
ESCI 4320	Monitoring Regional Sust	3
GEOL 4376	Field Geology II	3
Course Elective		3
Upper Division Elective		3
<b>Total Hours</b>		<b>128</b>

**BS in Environmental Science- Environmental Hydroscience (Starting with Pre-Calculus)**

Code	Title	Hours
<b>BS ENVIRONMENTAL SCIENCE- ENVIRONMENTAL HYDROSCIENCE (STARTING WITH PRE-CALCULUS)</b>		
<b>FRESHMAN</b>		

**Fall**

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
MATH 1508	Precalculus	5
HIST 1301	History of U.S. to 1865	3
UNIV 1301	Seminar/Critical Inquiry	3

**Spring**

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

**SOPHOMORE****Fall**

ESCI 3204	Research Exp in Envi Science 1	2
GEOL 2309 & GEOL 2109	Mineralogy & Petrology and Mineralogy & Petrology Lab	4
GEOL 3312 & GEOL 3112	Geoscience Processes and Geoscience Processes Lab	4
MATH 1312	Calculus II	3
RWS 1301	Rhetoric & Composition I (*)	3

**Spring**

CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
COMM 1301	Public Speaking (*)	3
ESCI 3105	Research Exp in Envi Science 2	1
ESCI 3201	Environmental Policy & Law	2
MATH 2326	Differential Equations	3
RWS 1302	Rhetoric & Composition 2 (*)	3

**JUNIOR****Fall**

ART 1300	Art Appreciation (*)	3
GEOL 3323 & GEOL 3123	Structural Geology and Structural Geology Lab	4
GEOL 3326 & GEOL 3126	Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy	4
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
POLS 2310	Introduction to Politics	3

**Spring**

GEOL 4316	Geochemistry	3
GEOL 4383	General Hydrogeology	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
PHIL 2306	Ethics	3
POLS 2311	American Gover & Politics	3
PSYC 1301	Introduction to Psychology (*)	3

**SENIOR****Fall**

ESCI 4301	Senior Project	3
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ESCI 4398	Environmental Sci. Internship	3
GEOL 4375	Field Geology I	3
PHYS 2230	Thermal and Fluid Physics	2
Course Elective		3
<b>Spring</b>		
ESCI 3192	Prof. Development in ESCI	1
ESCI 4320	Monitoring Regional Sust	3
GEOL 4376	Field Geology II	3
Course Elective		3
Upper Division Elective		3
<b>Total Hours</b>		<b>133</b>