

ENVIRONMENTAL SCIENCE

Bachelor of Science (BS)

This is a guide based on the 2023-2024 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

Environmental Science – 91-101 hours (including track)

- ___ BI163 Evolution & Ecology (4)
- ___ BI332 General Ecology (3)
- ___ BS105 Environmental Biology (3)
- ___ CH184 General Chemistry I Lab (1)
- ___ CH185 General Chemistry I (3)
- ___ CH186 General Chemistry II (3)
- ___ EC344 Environmental Economics (3)
- ___ EN190 Writing & the Environment (3)
- ___ EV201 Environmental Science Seminar I (1)
- ___ EV401 Environmental Science Seminar II (1)
- ___ EV454 Risk Assessment Applications (3)
- ___ EVxxx EV Course (300-500 level) (3)
- ___ GO110 Physical Geology (3)
- ___ GO365 Environmental Soil Science (3)
- ___ GO460 Environmental Hydrology (3)
- ___ MA223 Elementary Probability & Statistics (3)
- ___ PL429 Environmental Ethics (3)

Choose 3 hours from:

- ___ CH450 Environmental Chemistry (3)
- ___ EV400 Health Physics (3)

Choose 3 hours from:

- ___ EV481-483 Internship (3)
- ___ EV491-493 Research (3)

Choose 3-5 hours from:

- ___ MA139 Applied Calculus (3)
- ___ MA140 Analytical Geometry & Calculus I (5)

Choose 3-5 hours from:

- ___ PH106 Physical Concepts (3)
- ___ PH120 Introductory Physics I (5)

Choose 6 hours from:

- ___ EV360 Recycling & Waste Management (3)
- ___ EV386 Environmental Health (3)
- ___ EV387 Environmental Law & Public Policy (3)
- ___ UI331 Foundations of Biochemistry (3)
- ___ GO372/072 Earth and Life Through Time (3)

Choose one advising track:

Biology – 31 hours

- ___ BI173 Cellular & Organismal Biology (4)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Lab I (1)

Choose 2 Courses From:

- ___ BI310 General Microbiology (4)
- ___ BO310 Plant Biology (4)
- ___ ZO310/010 Zoology (4)

Choose 6 Hours From:

- ___ BI, BO, or ZO 3xx to 5xx (6)

Chemistry – 31-33 hours

- ___ CH187 General Chemistry II Lab (1)
- ___ CH271 Foundations of Analytical Chemistry (5)
- ___ CH311 Foundations of Physical Chemistry (4)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Lab I (1)
- ___ PH121 Introductory Physics II (5)
- ___ UI443 Professional Experience in Chemistry (3)

Choose One Course:

- ___ CH313 Physical Chemistry Lab (3)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ CH391 Undergraduate Research (1)
- ___ CH447 Advanced 1 & 2 Dim NMR Techniques (3)
- ___ CH531/UI 331 Foundations of Biochemistry (3)
- ___ CH545 Organic Preparations & Characterizations (3)
- ___ CH575/075 Chemical Instrumentation (4)

Environmental Business - 30 hours

- ___ AC221 Principles of Accounting I (3)
- ___ AC222 Principles of Accounting II (3)
- ___ EC225 Principles of Macroeconomics (3)
- ___ FI361 Financial Management (3)
- ___ MG301 Principles of Management (3)
- ___ MI101 Introduction to Computer Applications (3)
- ___ MI375 Management Information Systems (3)
- ___ MK301 Principles of Marketing (3)

Environmental Geoprocessing and Soils – 28 hours

- ___ AG440 Precision Agriculture (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ GO445 Advanced Geographic Information Science (3)
- ___ GO555 Soil Classification & Resource Management (3)

Choose 3-5 hours:

- ___ CH234/034 Organic & Biological Chemistry (3)
- ___ CH341/342 Foundations of Organic Chemistry and Lab (5)

Choose 3 Hours From:

- ___ AG551 Water Management (3)
- ___ GO340 Remote Sensing (3)

Choose 3 Hours From:

- ___ AO427 Soil Fertility & Plant Nutrition (3)
- ___ BI440 Ecology & Management of Wetlands (3)

Environmental Health – 29-31 hours

- ___ CH187 General Chemistry II Lab (1)
- ___ EV443 Epidemiology (3)
- ___ EV453 Occupational Health (3)
- ___ EV455 Industrial Hygiene (3)
- ___ EV460 Introduction to Toxicology (3)
- ___ EV551 Hazardous Materials Assessment (3)

Choose 3-5 hours:

- ___ CH234/034 Organic & Biological Chemistry (3)
- ___ CH341/342 Foundations of Organic Chemistry and Lab (5)

Choose 3 hours:

- ___ BI485 Topics in Biology (3)
- ___ BI543/043 Pathogenic Microbiology & Lab (4)
- ___ GO445 Advanced Geographic Information Science (3)
- ___ GO520 GIS Application (3)
- ___ HL320 Community Health (3)

Environmental Policy & Communication – 27 hours

- ___ EV386 Environmental Health (3)
- ___ EV387 Environmental Law & Public Policy (3)
- ___ IU309 Writing for Science & Technology (3)
- ___ PS418 Public Policy Analysis (3)
- ___ PS491 Topics in Political Science (3)
- ___ SC200 Introduction to Communication Research (3)

Choose 3 hours:

- ___ PS230 American Public Policy (3)
- ___ PS280 Introduction to Global Issues (3)

General Education Requirements – some

requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

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2023-2024 degree map



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SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	BI163	4
	EN100	3	CH184/CH185	4
	BS105	3	GO110/010	3
	General Education	3	EN190	3
	General Education	3		
	Total	13		Total
Milestone: maintain 2.0 cumulative GPA				
SECOND YEAR	BI173	4	BI/BO/ZO310	4
	CH186	3	CH341	4
	CH187	1	CH342	1
	General Education	3	EV201	1
	General Education	3	PH106 or PH120	3-5
	Elective	1	General Education	3
	Total	15		Total
Milestone: maintain 2.0 cumulative GPA				
<i>(summer courses are encouraged to avoid semesters exceeding 15 hours)</i>				
THIRD YEAR	BI/BO/ZO310	4	BI332	3
	EC344	3	EV400	3
	EV454	3	GO460	3
	GO365	3	MA223	3
	MA139 or MA140	3-5	General Education	3
	Total	16-18		Total
Milestone: maintain 2.0 cumulative GPA				
FOURTH YEAR	BI or BO or ZO elective	3	BI or BO or ZO elective	3
	EV Intern/Research	3	EV401	1
	Required UI3XX	3	EV elective	3
	General Education	3	PL429	3
	General Education	3	Required UI3XX	3
			General Education	3
Total	15		Total	16
Milestone: maintain 2.0 cumulative GPA				

A "Milestone" signifies a significant stage for a student in the completion of a degree.

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.00 GPA in the major and overall are required to graduate with a BS degree.