ENVIRONMENTAL SCIENCE

Bachelor of Science (BS)

This is a guide based on the 2024-2025 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 - 92-102 hours (including track)

- BI163 Evolution & Ecology (4)
- BI332 General Ecology (4) 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)

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- 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)

BI543/043 Pathogenic Microbiology & Lab (4)

Environmental Policy & Communication - 27 hours

EV387 Environmental Law & Public Policy (3)

SC200 Introduction to Communication Research (3)

General Education Requirements - some

requirements may be fulfilled by coursework in major program

Constitution Requirement - 3 hours

Written Communication - 6 hours

Oral Communication - 3 hours

Social and Behavioral Sciences - 6 hours

Natural Sciences - 7 hours (from two disciplines, one to

Humanities & Fine Arts - 9 hours (from at least two

Additional requirements - 5 hours (to include UI100 for

2024-2025 degree map

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IU309 Writing for Science & Technology (3)

CH341/342 Foundations of Organic Chemistry and Lab (5)

GO445 Advanced Geographic Information Science (3)

EV551 Hazardous Materials Assessment (3)

BI485 Topics in Biology (1-4)

GO520 GIS Application (3)

HL320 Community Health (3)

EV386 Environmental Health (3)

PS418 Public Policy Analysis (3)

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

include a lab)

disciplines)

native students)

Civics examination

Mathematics - 3 hours

PS491 Topics in Political Science (3)

Choose 3-5 hours: CH234/034 Organic & Biological Chemistry (3)

Choose 3 hours:

Choose 3 hours:

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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	14
	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	16-18
	Milestone: maintain 2.0 cumulative GPA			
	(summer courses are encouraged to avoid semesters exceeding 15 hours)			
THIRD YEAR	BI/BO/ZO310	4	BI332	4
	EC344	3	EV400	3
	EV454	3	GO460	3
	GO365	3	MA223	3
	MA139 or MA140	3-5	General Education	3
	Total	16-18	Total	16
	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 EV/GO/UI 3xx	3	EV elective	3
	General Education	3	PL429	3
	General Education	3	Required EV/GO/UI 3xx	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.



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