

Bachelor of Science (BS)

**Environmental Science** 

Concentration: Environmental Biology

Prerequisite For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TS See General Education Core for more details С Communication (Core) reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" Choose 1 Options: ENGL 1301 or ENGL 1387 (H) or better in ENGL 1301/1387. Satisfies General Education Core-Life & Physical Sciences and FNVR 1401 Introduction to Environmental Science I 030/090 Int. Exper. Learning MATH 1314 or MATH 1414 with a grade of "C" or better; or passing the MATH 1314 or MATH 2412 С Select per math placement results. College Alegbra OR Pre-Calculus 020 College Algebra Exemption Test administered by the Department of Mathematics. Social and Behavioral Sciences (Core) 080 Choose 1 See General Education Core for course options UNIV 1301 Learning Framework Only if required, based on ACT/SAT and high school rank Semester Total Hours 13 For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI See General Education Core for more details reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" Choose 1 Communication (Core) Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305 or better in ENGL 1301/1387. Satisfies General Education Core-Life & Physical Sciences and ENVR 1402 Introduction to Environmental Science II 030/090 ENVR 1401 with a grade of 'C' or better. Int. Exper. Learning C. MATH 1342 **Elementary Statistical Methods** College Ready TSI status in Mathematics. Satisfies Major-Science Foundation 040 Choose 1 Language, Philosophy & Culture (Core) See General Education Core for course options Semester Total Hours Additional Notes FNVR 2301 Earth System Science 3 Satisfies Major-Environmental Science Core One hour Integrative & Experiential Learning. Supporting BIOL 1406 General Biology I Choose 1 Integrative/Experiential Learning Option (Core) 090 See General Education Core for course options See General Education Core for more details Choose 1 070 Government/Political Science (Core) Options: POLS 2305 or POLS 2385 (H) MATH 2412 with a grade of 'C' or better; or passing the Precalculus MATH 2413 Calculus I С Satisfies Major-Science Foundation Exemption Test administered by the Department of Mathematics. 17 Semester Total Hours ENVR 2302 **Environment and Society** Satisfies Major-Environmental Science Core Satisfies Major-Supporting Sciences. BIOL 1407 is Choose 1 Supporting Science recommended. Choose 1 Creative Arts (Core) 050 See General Education Core for course options See General Education Core for more details Choose 1 Government/Political Science (Core) 070 Options: POLS 2306 or POLS 2386 (H) Semester Total Hours

> CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core www.utrgv.edu/core

#### Symbols Key

Critical ('!'): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory,

General Education Core (GEC) Sections: 010 - Communication; 020 -Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political at the undergraduate level equivalent to a minimum of six credits. Science: 080 - Social and Behavioral Sciences: 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 -

Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

Language Proficiency Requirement: Student is required to demonstrate language proficiency in a language other than English

2018-2019

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENVR 3303	Research Methodology and Data Analysis in Environmental Sciences			Environmental Science Major or Minor with junior status and MATH 1342 or MATH 1325 with a grade of 'C' or better	Satisfies Major-Environmental Science Core
		3	CHEM 1311	General Chemistry I			MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Science Foundation
	FALL	1	CHEM 1111	General Chemistry I Lab			Credit/registration in CHEM 1311.	Satisfies Major-Science Foundation
~		4	GEOL 1403	Physical Geology				Satisfies Major-Science Foundation
) YEA		3	Choose 1	American History (Core)		060		See General Education Core for more details.  Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
¥		14	Semester Total Hours					options/find/ 1301 of find/ 1307 of find/fin/ oc 2327
F		4	GEOL 4411	Introduction to Geographic Information Systems				Satisfies Major-Environmental Science Core
	NG	4	PHYS 1401 or 2425	General Physics I or Physics for Scientists and Engineers I			MATH 1414 or MATH 1314, MATH 2412 or MATH 2413 for PHYS 1401; MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488) for PHYS 2425	Satisfies Major-Science Foundation
	SPRING	3	Choose 1	American History (Core)		060		See General Education Core for more details.  Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
		4	BIOL 3409	Ecology				Satisfies Major-Environmental Biology Conc. Required Course
		15	Semester Total Hours					
		Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	Choose 1	ES Major Environmental Biology Conc. Elective				Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective
		3	Choose 1 BIOL 3420	ES Major Environmental Biology Conc. Elective  Environmental Biology				
	ALL	++						Environmental Biology Conc. Elective
	FALL	4	BIOL 3420	Environmental Biology				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major  Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major
H YEAR	FALL	4	BIOL 3420 Choose 1	Environmental Biology ES Major Environmental Biology Conc. Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective
RTH YEAR	FALL	3	BIOL 3420 Choose 1 Choose 1	Environmental Biology  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is
FOURTH YEAR	FALL	3 3 4	BIOL 3420 Choose 1 Choose 1	Environmental Biology  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is
FOURTHYEAR	FALL	4 3 3 4 17	BIOL 3420 Choose 1 Choose 1 Choose 1 Semester Total Hours	Environmental Biology  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective  Supporting Science				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is
FOURTH YEAR		4 3 3 4 17 4	Choose 1 Choose 1 Choose 1 Semester Total Hours 34XX-44XX	Environmental Biology ES Major Environmental Biology Conc. Elective ES Major Environmental Biology Conc. Elective Supporting Science Free Advanced Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is recommended.  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective Satisfies Major-Specific Elective. Recommended ES Major
FOURTH YEAR	SPRING	4 3 3 4 17 4 4	Choose 1 Choose 1 Choose 1 Semester Total Hours 34XX-44XX Choose 1	Environmental Biology  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective  Supporting Science  Free Advanced Elective  ES Major Environmental Biology Conc. Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is recommended.  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective
FOURTH YEAR		4 3 3 4 17 4 4 4	BIOL 3420  Choose 1  Choose 1  Choose 1  Semester Total Hours  34XX-44XX  Choose 1  Choose 1  33XX-43XX  33XX-43XX	Environmental Biology  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective  Supporting Science  Free Advanced Elective  ES Major Environmental Biology Conc. Elective  ES Major Environmental Biology Conc. Elective				Environmental Biology Conc. Elective  Satisfies Major-Environmental Biology Conc. Required Course  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective  Satisfies Major-Supporting Sciences. CHEM 1312/112 is recommended.  Satisfies Major-Specific Elective. Recommended ES Major Environmental Biology Conc. Elective Satisfies Major-Specific Elective. Recommended ES Major

In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

120 TOTAL HOURS
(42) TOTAL ADVANCED HOURS

Approved: Monday, March 19, 2018 Revised: Wednesday, June 20, 2018



Bachelor of Science (BS) Environmental Science 2018-2019

Concentration: Earth and Ocean Sciences

	!	Н	Course #	Course Title	Min.	GEC	Prerequisite	Additional Notes
	_				Grade		For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI	Traditional Traces
		3	Choose 1	Communication (Core)	С	010	reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)
	_	4	ENVR 1401	Introduction to Environmental Science I	С	030/090		Satisfies General Education Core-Life & Physical Sciences and Int. Exper. Learning
	FALL	4	GEOL 1403	Physical Geology	С			Satisfies Major-Specific Requirement. Science Foundation.
		3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
YEAR			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
Σt		14	Semester Total Hours					
FIR		3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305
	9	4	ENVR 1402	Introduction to Environmental Science II		030/090	ENVR 1401 with a grade of 'C' or better.	Satisfies General Education Core-Life & Physical Sciences and Int.  Exper. Learning
	SPRING	3	MATH 1314 or MATH 2412	College Alegbra OR Pre-Calculus	С	020	MATH 1314 or MATH 1414 with a grade of "C" or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.	Select per math placement results.
		3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
		13	Semester Total Hours					
	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENVR 2301	Earth System Science				Satisfies Major-Specific Requirement.
		4	BIOL 1406	General Biology I		090		One hour Integrative & Experiential Learning. Satisfies Major- Specific Requirement. Science Foundation.
	FALL	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
		4	MATH 2413	Calculus I	С		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Satisfies Major-Specific Requirement. Science Foundation.
EAF		17	Semester Total Hours					
Y QNC		3	ENVR 2302	Environment and Society				Satisfies Major-Specific Requirement.
SECC		3	CHEM 1311	General Chemistry I			MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Specific Requirement. Science Foundation.
	9	1	CHEM 1111	General Chemistry I Lab			Credit/registration in CHEM 1311.	Satisfies Major-Specific Requirement. Science Foundation.
	SPRING	3	MATH 1342	Elementary Statistical Methods	С		College Ready TSI status in Mathematics.	Satisfies Major-Specific Requirement. Science Foundation.
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
		4	Choose 1	Supporting Science				Satisfies Major-Specific Elective. GEOL 1404 is recommended Supporting Sciences course. PREREQ for GEOL 3405 and GEOL 4403
		17	Semester Total Hours		_			

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core www.utrgv.edu/core

### Symbols Key

Critical ('!'): sequence sensitive course.

**Minimum Grade**: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

Language Proficiency Requirement: Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENVR 3303	Research Methodology and Data Analysis in Environmental Sciences			Environmental Science Major or Minor with junior status and MATH 1342 or MATH 1325 with a grade of 'C' or better	Satisfies Major-Specific Requirement.
		4	PHYS 1401 or PHYS 2425	General Physics I or Physics for Scientists and Engineers I			MATH 1414, MATH 1314, MATH 2412, MATH 2413	Satisfies Major-Specific Requirement.
	FALL	4	Choose 1	ES Major Earth and Ocean Science Conc. Elective				Satisfies Major-Specific Elective. GEOL 3411 is recommended ES Major Earth and Ocean Science Conc. Elective
AR		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
THIRD YE		3	Choose 1	ES Major Earth and Ocean Science Conc. Elective				Satisfies Major-Specific Elective. EEMS 3360 is recommended ES Major Earth and Ocean Science Conc. Elective
_		17	Semester Total Hours					
		4	GEOL 4411	Introduction to Geographic Information Systems				Satisfies Major-Specific Elective.
	NG	4	GEOL 3405	Oceanography			GEOL 1403 and either GEOL 1404 or BIOL 1406 or BIOL 1407. All with a grade of 'C' or better.	Satisfies Major-Specific Requirement.
	SPRING	3	Choose 1	American History (Core)		060		See General Education Core for more details.  Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
		4	GEOL 3402 Semester Total Hours	Hydrologic Systems			GEOL 1403 or consent of instructor	Satisfies Major-Specific Requirement.
				Course Title	Min	GEC	Proroquisito	Additional Notes
		Н	Course #	Course Title	Min	GEC	Prerequisite	Additional Notes
				Course Title Free Advanced Elective	Min	GEC	Prerequisite	Additional Notes
		Н	Course #		Min	GEC	Prerequisite	Additional Notes  Satisfies Major-Specific Elective
	FALL	3	Course # 33XX-43XX	Free Advanced Elective	Min	GEC	Prerequisite	
YEAR	FALL	3 4 4	Course #  33XX-43XX  Choose 1  Choose 1  Choose 1	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc.	Min	GEC	Prerequisite	Satisfies Major-Specific Elective Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for
OURTH YEAR	FALL	3 4 4	Course #  33XX-43XX  Choose 1  Choose 1	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc. Elective ES Major Earth and Ocean Science Conc.	Min	GEC	Prerequisite	Satisfies Major-Specific Elective  Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for GEOL 4403 is GEOL 1403 and 1404 with a a grade of 'C' or better.  Satisfies Major-Specific Elective. GEOL 4309 is recommended ES
YEAR	FALL	3 4 4	Course #  33XX-43XX  Choose 1  Choose 1  Choose 1	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc. Elective ES Major Earth and Ocean Science Conc.	Min	GEC 090	Prerequisite	Satisfies Major-Specific Elective  Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for GEOL 4403 is GEOL 1403 and 1404 with a a grade of 'C' or better.  Satisfies Major-Specific Elective. GEOL 4309 is recommended ES
FOURTH YEAR		3 4 4 3	Course #  33XX-43XX  Choose 1  Choose 1  Choose 1  Semester Total Hours	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc. Elective ES Major Earth and Ocean Science Conc. Elective	Min		Prerequisite	Satisfies Major-Specific Elective  Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for GEOL 4403 is GEOL 1403 and 1404 with a a grade of 'C' or better.  Satisfies Major-Specific Elective. GEOL 4309 is recommended ES Major Earth and Ocean Science Conc. Elective
FOURTH YEAR	Spring FALL	3 4 4 3	Course #  33XX-43XX  Choose 1  Choose 1  Choose 1  Semester Total Hours  Choose 1  Choose 1	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc. Elective ES Major Earth and Ocean Science Conc. Elective Integrative and Experiential Learning ES Major Earth and Ocean Science Conc.	Min		Prerequisite	Satisfies Major-Specific Elective  Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for GEOL 4403 is GEOL 1403 and 1404 with a a grade of 'C' or better.  Satisfies Major-Specific Elective. GEOL 4309 is recommended ES Major Earth and Ocean Science Conc. Elective  See General Education Core for course options.  Satisfies Major-Specific Elective. GEOL 4302 is recommended ES
FOURTH YEAR		3 4 4 3 14 3	Course #  33XX-43XX  Choose 1  Choose 1  Choose 1  Semester Total Hours  Choose 1  Choose 1  34XX-44XX	Free Advanced Elective Supporting Science ES Major Earth and Ocean Science Conc. Elective ES Major Earth and Ocean Science Conc. Elective Integrative and Experiential Learning ES Major Earth and Ocean Science Conc. Elective	Min		Prerequisite	Satisfies Major-Specific Elective  Satisfies Major-Specific Elective. GEOL 4403 is recommended ES Major Earth and Ocean Science Conc. Elective. Prerequisite for GEOL 4403 is GEOL 1403 and 1404 with a a grade of 'C' or better.  Satisfies Major-Specific Elective. GEOL 4309 is recommended ES Major Earth and Ocean Science Conc. Elective  See General Education Core for course options.  Satisfies Major-Specific Elective. GEOL 4302 is recommended ES

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120 TOTAL HOURS (42) TOTAL ADVANCED HOURS



Bachelor of Science (BS) **Environmental Science** 

Concentration: Environment & Society

2018-2019

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)
		4	ENVR 1401	Introduction to Environmental Science I	С	030/090		Satisfies General Education Core-Life & Physical Sciences and Int. Exper. Learning
	FALL	4	GEOL 1403	Physical Geology				Satisfies Major-Science Foundation
		3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options. ANTH, ECON, PSYC, or SOCI course recommended for PREREQ ANTH 4314
<b>¥</b>			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
, YE		14 :	Semester Total Hours					
FIRST		3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305
		4	ENVR 1402	Introduction to Environmental Science II		030/090	ENVR 1401 with a grade of 'C' or better.	Satisfies General Education Core-Life & Physical Sciences and Int. Exper. Learning
	SPRING	3	Choose 1	Integrative and Experiential Learning		090		See General Education Core for course options.
	SPR	3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
		3	MATH 1314 or MATH 2412	College Alegbra OR Pre-Calculus	С	020	MATH 1314 or MATH 1414 with a grade of "C" or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.	Select per math placement results.
			Semester Total Hours		150			
	!	16 S	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	!			Course Title Earth System Science	Min. Grade	GEC	Prerequisite	Satisfies Major-Environmental Science Core
	!	Н	Course #		Min. Grade	GEC 090	Prerequisite	
		3	Course # ENVR 2301	Earth System Science	Min. Grade	090	Prerequisite  College Ready TSI status in Mathematics.	Satisfies Major-Environmental Science Core One hour Integrative & Experiential Learning. Satisfies Major-
	FALL	3 4	Course # ENVR 2301 BIOL 1406	Earth System Science General Biology I	Min. Grade	090		Satisfies Major-Environmental Science Core One hour Integrative & Experiential Learning. Satisfies Major- Science Foundation
EAR		3 4 3	Course # ENVR 2301 BIOL 1406 MATH 1342	Earth System Science General Biology I Elementary Statistical Methods	Min. Grade	090		Satisfies Major-Environmental Science Core One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation Satisfies Major-Science Foundation See General Education Core for more details
ND YEAR		H 3 4 3 3 3	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)	Min. Grade	090		Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details.
ECOND YEAR		H 3 4 3 3 3	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)	Min. Grade	090		Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details.
SECOND YEAR		H 3 4 3 3 16 9	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1 Semester Total Hours	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)  American History (Core)	Min. Grade	090		Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details  Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details.  Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
SECOND YEAR	FALL	H 3 4 3 3 3 16 5	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1 Semester Total Hours ENVR 2302	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)  American History (Core)	Min. Grade	090 070 060	College Ready TSI status in Mathematics.  MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412,	Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328  Satisfies Major-Environmental Science Core
SECOND YEAR	FALL	H 3 4 3 3 3 3 3 3 3 3 3 3	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1 Semester Total Hours ENVR 2302 CHEM 1311	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)  American History (Core)  Environment and Society  General Chemistry I	Min. Grade	090 070 060	College Ready TSI status in Mathematics.  MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328  Satisfies Major-Environmental Science Core Satisfies Major-Science Foundation
SECOND YEAR		H 3 4 3 3 16 5 3 1 1	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1 Semester Total Hours ENVR 2302 CHEM 1311 CHEM 1111	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)  American History (Core)  Environment and Society  General Chemistry I  General Chemistry I Lab	Min. Grade	090 070 060	College Ready TSI status in Mathematics.  MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328  Satisfies Major-Environmental Science Core Satisfies Major-Science Foundation  Satisfies Major-Science Foundation
SECOND YEAR	FALL	H 3 4 3 3 3 16 3 3 1 3	Course # ENVR 2301 BIOL 1406 MATH 1342 Choose 1 Choose 1 Semester Total Hours ENVR 2302 CHEM 1311 CHEM 1111 Choose 1	Earth System Science  General Biology I  Elementary Statistical Methods  Government/Political Science (Core)  American History (Core)  Environment and Society  General Chemistry I  General Chemistry I Lab  Creative Arts (Core)	Min. Grade	090 070 060 030	College Ready TSI status in Mathematics.  MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Environmental Science Core  One hour Integrative & Experiential Learning. Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)  See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328  Satisfies Major-Environmental Science Core  Satisfies Major-Science Foundation  Satisfies Major-Science Foundation  See General Education Core for course options.  See General Education Core for more details

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core

# www.utrgv.edu/core

#### Symbols Key

Critical ('!'): sequence sensitive course.

- Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 · Language Proficiency Requirement: Student is required to Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; demonstrate language proficiency in a language other than English 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral at the undergraduate level equivalent to a minimum of six credits. Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 -Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 -Language Diversity & Writing.

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENVR 3303	Research Methodology and Data Analysis in Environmental Sciences			Environmental Science Major or Minor with junior status and MATH 1342 or MATH 1325 with a grade of 'C' or better	Satisfies Major-Environmental Science Core
		3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. SOCI 3312 is recommended ES Major Environment and Society Conc. Elective
	=	3	33XX-43XX	Free Advanced Elective				Supporting Sciences. MATH 3335 is recommended Elective
	Ā	3	33XX-43XX	Free Advanced Elective				HIST 3300 is recommended. PREREQ for HIST 3302
RD YEAR		4	PHYS 1401 or 2425	General Physics I or Physics for Scientists and Engineers I			MATH 1414, MATH 1314, MATH 2412 or MATH 2413 for PHYS 1401; MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488) for PHYS 2425	Satisfies Major-Science Foundation
喜		16	Semester Total Hours					
		4	GEOL 4411	Introduction to Geographic Information Systems				Satisfies Major-Environmental Science Core
	9	3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. ENVR 3302 is recommended ES Major Environment and Society Conc. Elective
	SPRING	4	Choose 1	Supporting Science				Satisfies Major-Supporting Sciences. BIOL 1407 is recommended.
		3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. ANTH 4314 is recommended ES Major Environment and Society Conc. Elective
		14	Semester Total Hours					
	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		4	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. HIST 3302 is recommended ES Major Environment and Society Conc. Elective
		4	Choose 1	Supporting Science				Satisfies Major-Supporting Sciences.
	FALL	3	POLS 4356	U.S. Environmental Policy			POLS 2305 (or POLS 2387) and POLS 2306 (or POLS 2388).	Alternative: ENVR 4301
EAR		3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. POLS 4357 is recommended ES Major Environment and Society Conc. Elective
표		14	Semester Total Hours					
FOUR		3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. HIST 3335 is recommended ES Major Environment and Society Conc. Elective
	9	3	Choose 1	ES Major Environment and Society Conc. Elective				Satisfies Major-Specific Elective. PHIL 3352 is recommended ES Major Environment and Society Conc. Elective
	SPRING	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
		4	34XX-44XX	Free Advanced Elective				
		13	Semester Total Hours					
		_	auiromonts:					

In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

120 TOTAL HOURS (42) TOTAL ADVANCED HOURS



Bachelor of Science (BS)

**Environmental Science** 

Concentration: Environmental Chemistry

	! <b> </b>	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)
	4	ENVR 1401	Introduction to Environmental Science I	С	030/090		Satisfies General Education Core-Life & Physical Sciences and Int. Exper. Learning
FALL	3	MATH 1314 or MATH 2412	College Alegbra OR Pre-Calculus	С	020	MATH 1314 or MATH 1414 with a grade of "C" or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.	Select per math placement results. Supporting Sciences
	3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
	4	BIOL 1406	General Biology I		090		One hour Integrative & Experiential Learning. Supporting Sciences.
œ		UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
YEAI	17	Semester Total Hours					
FIRST	3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305
	4	ENVR 1402	Introduction to Environmental Science II		030/090	ENVR 1401 with a grade of 'C' or better.	Satisfies General Education Core-Life & Physical Sciences and Int. Exper. Learning
SPRING	3	CHEM 1311	General Chemistry I			MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Science Foundation
S	1	CHEM 1111	General Chemistry I Lab			Credit/registration in CHEM 1301.	Satisfies Major-Science Foundation
	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options. (H) designates Honors sections of courses.
	3	MATH 1342	Elementary Statistical Methods	С		College Ready TSI status in Mathematics.	Satisfies Major-Science Foundation
		Semester Total Hours					
	!  -	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	ENVR 2301	Earth System Science				Satisfies Major-Specific Requirement.
	4	GEOL 1403	Physical Geology				Satisfies Major-Science Foundation
FALL	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
	4		Calculus I	С		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Satisfies Major-Science Foundation
¥	14	Semester Total Hours					
D Y E	3	ENVR 2302	Environment and Society				Satisfies Major-Specific Requirement.
CON	3	CHEM 1312	General Chemistry II			CHEM 1311.	Satisfies Major-Specific Elective. Recommended Supporting Sciences
SE	1	CHEM 1112	General Chemistry II Lab			Credit/registration in CHEM 1312	Satisfies Major-Specific Elective. Recommended Supporting Sciences course
SPRING	4	PHYS 1401 or 2425	General Physics I or Physics for Scientists and Engineers I			MATH 1414, MATH 1314, MATH 2412 or MATH 2413 for PHYS 1401; MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488) for PHYS 2425	Satisfies Major-Science Foundation
	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
	3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
	17	Semester Total Hours					

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core www.utrgv.edu/core

## Symbols Key

Critical ('!'): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S -Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; Language Proficiency Requirement: Student is required to 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative demonstrate language proficiency in a language other than English at Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and the undergraduate level equivalent to a minimum of six credits. Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 -Language Diversity & Writing.

2018-2019

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	Choose 1	Integrative and Experiential Learning (core)		090		See General Education Core for course options
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
	FALL	3	ENVR 3303	Research Methodology and Data Analysis in Environmental Sciences			Environmental Science Major or Minor with junior status and MATH 1342 or MATH 1325 with a grade of 'C' or better	Satisfies Major-Specific Requirement.
	7	3	CHEM 2323	Organic Chemistry I				Satisfies Major-Specific Elective. Recommended Supporting Sciences course. PREREQ for CHEM 3401
EAR		1	CHEM 2123	Organic Chemistry I Lab				Satisfies Major-Specific Elective. Recommended Supporting Sciences course. PREREQ for CHEM 3401
å.		13 Sem	ester Total Hours					
喜		3	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. EEMS 3360 is recommended ES Major Environmental Chemistry Conc. Elective
		3	Choose 1	American History (Core)		060		See General Education Core for more details.  Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
	SPRING	4	34XX-44XX	Free Advanced Elective				
	SPF	4	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. GEOL 3411 is recommended ES Major Environmental Chemistry Conc. Elective
		4	CHEM 3401	Environmental Chemistry			CHEM 2323 and CHEM 2123.	Satisfies Major-Specific Elective
			ester Total Hours					
	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		4	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. CHEM 4304/CHEM 4104 is recommended ES Major Environmental Chemistry Conc. Elective. Prerequisite is CHEM 2301/CHEM 2101.
	FALL	4	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. CHEM 3301/CHEM 3101 is recommended ES Major Environmental Chemistry Conc. Elective
YEAR		4	GEOL 4411	Introduction to Geographic Information Systems				Satisfies Major-Specific Requirement.
青		12 Sem	ester Total Hours					
FOUR		4	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. CHEM 3303/CHEM 3103 is recommended ES Major Environmental Chemistry Conc. Elective
	D N	2	Choose 1	ES Major Environmental Chemistry Conc. Elective				Satisfies Major-Specific Elective. CHEM 4101 is recommended ES Major Environmental Chemistry Conc. Elective
	SPRING	3	33XX-43XX	Free Advanced Elective				
		3	33XX-43XX	Free Advanced Elective				
		12 Sem	ester Total Hours	<u> </u>				

In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

120 TOTAL HOURS
(42) TOTAL ADVANCED HOURS



Choose 1

ENVR 1401

**GEOL 1403** 

Choose 1

**UNIV 1301** 

Choose 1

ENVR 1402

MATH 1314 or MATH 2412

Choose 1

14 Semester Total Hours

13 Semester Total Hours

3

Communication (Core)

Physical Geology

Learning Framework

Communication (Core)

Creative Arts (Core)

# **Bachelor of Science (BS)**

**Environmental Science** 

Concentration: Interdisciplinary Environmental Science Additional Notes For all 010 courses: Satisfactory scores on ENGL portion of ACT test or See General Education Core for more details C 010 TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a Options: ENGL 1301 or ENGL 1387 (H) grade of "C" or better in ENGL 1301/1387. Satisfies General Education Core-Life & Physical Sciences and Int. C 030 Introduction to Environmental Science I Exper. Learning Satisfies Major-Science Foundation Social and Behavioral Sciences (Core) 080 See General Education Core for course options. Only if required, based on ACT/SAT and high school rank. For all 010 courses: Satisfactory scores on ENGL portion of ACT test or See General Education Core for more details C 010 TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305 grade of "C" or better in ENGL 1301/1387. Satisfies General Education Core-Life & Physical Sciences and Int. Introduction to Environmental Science II C 030 ENVR 1401 with a grade of 'C' or better. Exper. Learning MATH 1314 or MATH 1414 with a grade of "C" or better; or passing College Alegbra OR Pre-Calculus C 020 the College Algebra Exemption Test administered by the Department Select per math placement results. of Mathematics. 050 See General Education Core for course options.

		COUISC II	Course True	Grade		ricicodiste	Additional Notes
	3	ENVR 2301	Earth System Science				Satisfies Major-Environmental Science Core
	4	BIOL 1406	General Biology I		090		One hour Integrative & Experiential Learning. Supporting Sciences.
FALL	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
	4	MATH 2413	Calculus I	С		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Satisfies Major-Science Foundation
	17	Semester Total Hours					
	3	ENVR 2302	Environment and Society				Satisfies Major-Environmental Science Core
	4	Choose 1	Supporting Science				Satisfies Major-Supporting Sciences. BIOL 1407 is recommended.
SPRING	3	MATH 1342	Elementary Statistical Methods	С		College Ready TSI status in Mathematics.	Satisfies Major-Science Foundation
SPR	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
	3	ENVR 3301	Natural Resources Conservation			ENVR 1402 with a grade of 'C' or better.	Satisfies Major-Interdisciplinary Environmental Science Conc. Required Course

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core www.utrgv.edu/core

#### Symbols Key

Critical ('!'): sequence sensitive course.

16 Semester Total Hours

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S -Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 -Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & demonstrate language proficiency in a language other than Culture; 050 - Creative Arts; 060 - American History; 070 -Government/Political Science; 080 - Social and Behavioral Sciences; 090 -Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 -Language Diversity & Writing.

Language Proficiency Requirement: Student is required to English at the undergraduate level equivalent to a minimum of six

2018-2019

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENVR 3303	Research Methodology and Data Analysis in Environmental Sciences			Environmental Science Major or Minor with junior status and MATH 1342 or MATH 1325 with a grade of 'C' or better	Satisfies Major-Environmental Science Core
		3	CHEM 1311	General Chemistry I			MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	Satisfies Major-Science Foundation
	٠.	1	CHEM 1111	General Chemistry I Lab			Credit/registration in CHEM 1301.	Satisfies Major-Science Foundation
~	FALL	3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
) YEAF		3	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.
THIRD		3	Choose 1	ES Major Interdisciplinary Environmental Science Conc. Elective				See Degree Plan for course options.
		16	Semester Total Hours					
		4	GEOL 4411	Introducation to Geographic Information Systems				Satisfies Major-Environmental Science Core
	<u>ق</u>	4	34XX-44XX	Free Advanced Elective				Satisfies Major-Specific Requirement.
	SPRING	3	Choose 1	American History (Core)		060		See General Education Core for more details.  Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
		3	ENVR 3302	Environmental Ethics			ENVR 1401 with a grade of 'C' or better.	Satisfies Major-Interdisciplinary Environmental Science Conc. Required Course
		14	Semester Total Hours					
		Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	33XX-43XX	Free Advanced Elective				Satisfies Major-Specific Requirement.
	_	4	PHYS 1401 or 2425	General Physics I or Physics for Scientists and Engineers I			MATH 1414, MATH 1314, MATH 2412 or MATH 2413 for PHYS 1401; MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488) for PHYS 2425	Satisfies Major-Science Foundation
	FALL	4	Choose 1	ES Major Interdisciplinary Environmental Science Conc. Elective				See Degree Plan for course options.
YEAR		4	Choose 1	ES Major Interdisciplinary Environmental Science Conc. Elective				See Degree Plan for course options. (at least 12 must be from College of Science)
표		15	Semester Total Hours					
FOU		3	33XX-43XX	Free Advanced Elective				
	8	4	Choose 1	ES Major Interdisciplinary Environmental Science Conc. Elective				See Degree Plan for course options. (at least 12 must be from College of Science)
	Spring	4	Choose 1	ES Major Interdisciplinary Environmental Science Conc. Elective				See Degree Plan for course options. (at least 12 must be from College of Science)
		4	Choose 1	Supporting Science				See Degree Plan for course options.
		15	Semester Total Hours					

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120 TOTAL HOURS (42) TOTAL ADVANCED HOURS