

2022-2023

Degree Map: [Environmental Science – Soil Science and Hydrology \(BS\)](#)

Environmental Science Program

School of Natural Sciences & Mathematics | Stockton University

USC 1 - 240 | 609-652-4546

The following is a **suggested** plan of study for completion of this degree program.

The **goal of a Degree Map** is to ensure that students graduate with no more than 128 credits and in four years.

- All students should speak with their preceptor about their academic programs.
- Students are encouraged to take overload and Summer courses to facilitate their progress towards graduation as necessary.
- Transfer students may not need to take all courses in the plan; they should consult with an academic advisor.

FIRST YEAR - FALL	Credit	FIRST YEAR - SPRING	Credit
Course load	17	Course load	19
FRST or G-course Attribute: First Year Seminar Optional Attributes: W1, A, H, I, and/or R	4	FRST or G-course Optional Attributes: W, A, H, I, and/or R	4
FRST 1100, 1103, GNM 1124 or GNM 1126, or MATH 1100 Precalculus Attribute: Q1	4	MATH 2215 Calculus Attribute: Q1	5
ENVL 1100 Introduction to Environmental Studies	4	ENVL 2100/2105 Physical Geography/Lab*	5
BIOL 1200/05 Cells and Molecules OR BIOL 1400/05 Biodiversity and Evolution w/lab*	5	CHEM 2110/2115 CHEM 1 General Principles w/lab* Attribute: Q2	5

SECOND YEAR - FALL	Credit	SECOND YEAR - SPRING	Credit
Course load	15-17	Course load	17
G-course Optional Attributes: W, A, H, I, and/or R	4	Subject: G-course Optional Attributes: W, A, H, I, and/or R	4
ENVL 2200/2205 Ecological Principles/Lab*	5	ASD or G-course Optional Attributes: W, A, H, I, and/or R	4
ENVL 2600 Environmental Seminar* (can be repeated up to 3 times)	1-3	ENVL 2400 Statistical Analysis of Ecological Systems* Attribute: Q1	4
GEOL 2101/2105 Physical Geology w/ lab ¹	5	CHEM 2120/2125 Chem II: Organic Structure w/lab OR CHEM 2140 Chem IV: Theory and Application w/lab Attribute: Q2 (CHEM IV only) ²	5

THIRD YEAR - FALL	Credit	THIRD YEAR - SPRING	Credit
Course load	17-20	Course load	16
ASD or G-course Optional Attributes: W, A, H, I, and/or R	4	ASD or G-course Optional Attributes: W, A, H, I, and/or R	4
ASD or G-course Optional Attributes: W, A, H, I, and/or R	4	Subject: ASD or G-course Optional Attributes: W, A, H, I, and/or R	4
ENVL 3432 Soil Science (Fall Only) Attributes: W2	4	ENVL 3000-4999 ENVL Elective (FROM LIST) ⁴	4

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THIRD YEAR - FALL	Credit	THIRD YEAR - SPRING	Credit
ENVL 48/4900 Senior Project/Internship [#]	1-4	ENVL or NAMS Elective ³	4
ENVL or NAMS Elective ³	4		

FOURTH YEAR - FALL	Credit	FOURTH YEAR - SPRING	Credit
Course load	12	Course load	16
ASD or G-course Optional Attributes: W, A, H, I, and/or R	4	ASD or G-course Optional Attributes: W, A, H, I, and/or R	4
ENVL 3434 Watershed Hydrology (Spring Only) OR ENVL 3435 Ground Water Hydrology (Fall Only) Attributes: Q2 and W2	4	ENVL 4300/05 Environmental Issues [#] (Fall or Spring; seniors only) Attribute: V	4
ENVL or NAMS Elective ³	4	ENVL 3000-4999 ENVL Elective (FROM LIST) ⁴	4
		ENVL or NAMS Elective ³	4

GRADUATION REQUIREMENT TRACKER

G-course	✓
GAH	
GAH	
GEN	
GIS	
GNM	
GNM	
GSS	
GSS	

Quantitative Reasoning	✓
Q1 (First year)	
Q1/Q2	
Q2	

Writing Requirement	✓
W1 (First year)	
W1/W2	
W1/W2	
W1/W2 (3000 level or higher)	

At-some-distance	✓
ASD	
ASD	
ASD	
ASD	

Attributes	✓
A	
H	
I	
R1	
R2	
V	

Program specific notes

- ENVL majors must earn a minimum grade of C in ENVL 1100, 2100/05, 2200/2205, 2400, 2600, 4300/4305, 4800/4900.
- All Environmental Studies majors must earn a **2.0 GPA** in all NAMS courses taken at Stockton.
- All program and cognate courses should be taken for a letter grade. Pass/No Credit (P/NC) option is not accepted for these courses.
- * Order can be shifted but must all be completed before end of year 2.
- [#] Can be taken either semester in Year 4.
- ¹ OR choose one of the following: PHYS 2200/2225 Physics [**Q1**], ECON 1200 Macroeconomics [**Q2**], PHYS 2110/2115 Physics for Life Sciences [**Q1**], ECON 1400 Microeconomics [**Q2**].
- ² At Stockton, Chemistry I and IV are 'General Chemistry' while CHEM II and CHEM III are 'Organic Chemistry'; thereby students may proceed to CHEM II or IV after taking CHEM I with lab.
- ³ Choose ENVL or other NAMS courses to equal 64 total ENVL/cognate credits. Courses in POLS, ECON, PUBH & others may count as cognates with PRIOR approval of preceptor.
- ⁴ **No more than one non-ENVL course** can be counted towards the 16 upper-level credits. Choose 8 credits from the following to reach 16 credits of the upper-level ENVL electives: ENVL 3302 Geographic Information Systems; ENVL 3304 Remote Sensing (2 credits); ENVL 3334 Water Chemistry; ENVL 3426 Freshwater Ecology; ENVL 3428 Wetland Soils; ENVL 3430 Geomorphology: Terrain Analysis; ENVL 3431 Field Soil Morphology (2 credits – can be repeated up to 3 times); ENVL 3531 Soil Chemistry; ENVL 3434 Watershed Hydrology **OR** ENVL 3435 Groundwater

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Hydrology (whichever was not chosen above); GEOL 3211 Mineralogy; GEOL 3231 Sedimentology and Stratigraphy; GEOL 3371 Introduction to Geophysics.

ADDITIONAL INFORMATION

- **FIRST (FRST).** All newly admitted freshmen or transfer students with 15 or fewer credits are required to fulfill the University's first-year competency requirement. The requirement may be met by demonstrating competency on the placement tests, or by passing, with a grade of C or better, all FRST courses: FRST 1101 – College Writing, 1002 – Critical Thinking and Reading, and 1103 – Quantitative Reasoning into which students have been placed. Students enrolled in FRST 1100 – Developmental Mathematics must receive a grade of C or better, and then enroll in and receive a grade of C or better in FRST 1103 to demonstrate competency. Full-time students must register for all required FRST courses in their first semester. Depending on time to completion of competency requirements, some students may need additional time for degree completion. *Note-* certain FRST courses also meet the requirements of the General Studies course distribution categories.
- **General Studies.** B.S. students must complete 48 credits of General Studies with the distribution requirement of: 8 GAH, 4 GEN, 4 GIS, 8 GNM, 8 GSS and 16 ASD (At Some Distance). See 2022-2023 Bulletin for more information. B.A. students must complete 64 credits of General Studies with the distribution requirement of: 8 GAH, 4 GEN, 4 GIS, 8 GNM, 8 GSS and 32 ASD.
- **W1/W2- Writing requirement.** Students are required to complete (C or better) four Writing intensive (WI/W2) courses. One W1 is required in the first year and an additional three W1 or W2 with one in the upper-level division (3000-level or higher). W1/W2 courses can be found in General Studies or Program/cognate courses depending on major.
- **Q1/Q2- Quantitative Reasoning.** Students are required to complete (D- or better) three Q1/Q2 courses. One Q1 in the first year and at least one Q2. Q1/Q2 courses may be found in General Studies or Program/cognate course depending on major.
- **R1/R2- Race and Racism.** Students are required to pass one R1 and another R1/R2 course. R1 (C or better), R2 (D or better). R1/R2 courses may be found in General Studies or Program/cognate courses depending on major.
- **Minor program.** Students may select a Minor program of study, in consultation with their preceptor. Minor courses would replace some of the ASD or Program/cognate courses in the Degree Map.
- **Attributes (AHVI/Q, W and R).** A course may fulfill multiple attributes and/or other requirements. Therefore, many attributes can be fulfilled without taking additional courses. Attributes can be taken in any order except for the first-year requirements. Many course choices are available to fulfill an attribute.
- **Transfer students.** Transfer students must take 25% of their remaining credits in General Studies with a GIS course required (The 25% Rule). Depending on transferred courses, individual attribute requirements may be met (AHVI/Q, W and R) but will be evaluated on transfer. For students transferring 64 credits or more, the General Studies course requirement is lowered to 16 credits (i.e. only four G courses are required, but all students must take 4 credits in the GIS category, the other three G courses can be any combination of the G course categories). Up to two W1 and two Q1 courses can be transferred, all W2 and Q2 courses need to be taken at Stockton. Up to one R1 or R2 can be transferred. Consult with an academic advisor for careful guidance.
- **Second degree.** Students with an earned degree will be exempt from all general studies course requirements (i.e. G courses, ASD) and AHVI/Q, W and R attributes.