THE UNIVERSITY OF RHODE ISLAND

Geology & Geological Oceanography, B.S.
Option: Water and Climate Science
120 Earned Credits Total
EL_GOCG_BS

Student: _____
Student ID: _____
Advisor: _____
Effective Fall 2025

ABOUT THE Geological Oceanography OPTION:

A student's GPA for the major is computed based upon all GEO courses taken by the student. The minimum major GPA to graduate is 2.0. Students may also combine supporting and free electives to pursue a minor field of study.

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS

Intro to URI & Professional Courses: (11 Credits)

Course	Semester	Credits	Grade
URI 101		1	
*GEO 103		4	
*EEC 105		3	
*NRS 100		3	

II. Core Geo Courses: (14 Credits)

Course	Semester	Credit	Grade
*GEO 200	Alt. Fall (odd)	4	
*GEO 204	Alt. Fall (odd)	4	
*GEO 234G	Fall	3	
*GEO 280	Fall	3	

III. Water and Climate Science Option: (24 Credits)

GEO courses chosen from: GEO405G, GEO462, GEO482, or GEO484. Additional 300-level GEO courses are also acceptable with faculty advisor approval.

Course	Semester	Credit	Grade
*GEO 305G		4	
GEO 420 or GEO 422		4	
GEO 483		4	

IV. Supporting Electives: (20 Credits)

200-level or above chosen from GEO, EEC, NRS, or OCG.
NOTE: 3 credits of supporting electives may be satisfied by a 100-level course in GEO or OCG.

~~Course~~	Semester	Credits	Grade

Transfer out of UCAS: Must have completed at least 30 credits with a minimum GPA of 2.0, and achieved a minimum of: B- in GEO 103; C in CHM 101; and C+ in MTH 103/111 or a C in MTH 131 or 141.

V. Supporting Sciences: (21 Credits)

Students considering graduate school are encouraged to take 2 semesters of each supporting science.

Biology Requirements

Course	Semester	Credits	Grade
*BIO 101		3	
*BIO 103		1	

Chemistry Requirements

Course	Semester	Credit	Grade
*CHM 101		3	
CHM 102		1	

Math Requirements

Course	Semester	Credit	Grade
*MTH 131 **OR** 141		3-4	
STA 308 **OR** 409		3-4	

Physics Requirements

Course	Semester	Credit	Grade
*PHY 111 **OR** 203		3	
*PHY 185 **OR** 273		1	

Science (2nd Semester) Requirement 3- 4 credits

Choose from: *BIO 102/104, CHM 112/114, CHM 124/126, *MTH 132, *MTH 142,*PHY 112/186,*PHY 204/274.

Course	Semester	Credits	Grade

VI. Free Electives: (additional courses to reach 120)

Course	Semester	Credits	Grade

Note: Courses marked with a * can be used to satisfy major and general education requirements. Minimum 2.0 GPA required in major for graduation. Minimum 2.0 cumulative GPA required for graduation.

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General Education Guidelines:

General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). **^No more than twelve credits can have the same course code.** General education courses may also be used to meet requirements of the major or minor when appropriate.

Step 2: LIST COURSES THAT MEET GEN ED

General Education Credit Count

At least 40 credits, no more than 12 credits with the same course code

Course	Credit	Grade		Course	Credit	Grade
*BIO 101						
*BIO 103						
*CHM 101						
*EEC 105						
*^GEO 103						
*^GEO 204						
*^GEO 210						
*^GEO 305G						
*^GEO 320						
*MTH 131						
*NRS 100						
*PHY 111						
				Total Gen Ed credits	0	

NOTE: BECAUSE MOST COURSES MEET MORE THAN ONE OUTCOME, YOUR OUTCOME AUDIT MIGHT BE COMPLETED BEFORE YOU REACH YOUR 40 CREDITS. HOWEVER, YOU MUST STILL COMPLETE 40 CREDITS OF GENERAL EDUCATION

Step 3: LIST COURSE AS EACH OUTCOME IS MET

General Education Outcome Audit	Course	Grade
KNOWLEDGE		
A1. STEM	BIO 101	
A2. Social & Behavioral Sciences	EEC 105	
A3. Humanities		
A4. Arts & Design		
COMPETENCIES		
B1. Write effectively	^GEO 204	
B2. Communicate effectively	^GEO 210	
B3. Mathematical, statistical, or computational strategics		
B4. Information literacy	^GEO 103	
RESPONSIBILITIES		
C1. Civic knowledge & responsibilities		
C2. Global responsibilities		
C3. Diversity & Inclusion		
INTEGRATE & APPLY		
D1. Ability to synthesize	^GEO 320	
GRAND CHALLENGE		
G. At least one course of your 40 credits is an approved "G" course	^GEO 305G	

Note: Courses marked with a * can be used to satisfy major and general education requirements. ^A maximum of 12 credits can be used from the same course code (e.g. GEO). Once 12 credits is earned, no further courses from that course code can count towards outcomes or 40 credit total.
Transfer out of UCAS: Must have completed at least 30 credits with a minimum GPA of 2.0, and achieved a minimum of: B- in GEO 103; C in CHM 101; and C+ in MTH 103/111 or a C in MTH 131 or 141.

Advising Notes:

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_____
_____
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Geology & Geological Oceanography, B.S. - Water and Climate Science Option
Sample 4 Year Plan - Effective Fall 2025
College of the Environment and Life Sciences

Freshman Year *Fall* Semester

Course Code	Description	Cr	
URI 101	Planning for Academic Success	1	
*GEO 103	Understanding Earth	4	
*NRS 100 or *EEC105	Natural Resource Conservation	3	
*MTH	Applied Pre-Calculus (or MTH 111 Pre-Calculus)	3	
	Gen. Ed or Free elective	3	
	Gen. Ed or Free elective (optional)	3	
		14-17	

Freshman Year *Spring* Semester

Course Code	Description	Cr	
*BIO101, 103	Biology 1, Lab	4	
*CHM 101,102	General Chemistry 1, Lab	4	
*MTH 131	Applied Calculus (or MTH 141 Calculus I)	3-4	
	Supporting Elective or 2nd Semester Science	3-4	
	*General Education Course	3-4	
		17-20	

Year 1 Milestones: Earn 30 credits and a gpa of 2.0 or higher. Meet with your Advisor for GEO option discussion.

Sophomore Year *Fall* Semester

Course Code	Description	Cr	
*GEO 234G	Introduction to Water Resources	4	
*GEO 280	Introduction to Climatology	4	
*PHY 111,185	General Physics 1, Lab (or PHY 203, 273)	4	
	*General Education Course	3-4	
		15-16	

Sophomore Year *Spring* Semester

Course Code	Description	Cr	
*GEO 200	Field Based Geoscience Data Analysis	4	
*GEO 204	Problem Solving in Earth History	4	
STA 308	Intro to Statistics (or STA409)	3-4	
	Supporting Elective or 2nd Semester Science	3-4	
		14-16	

Year 2 Milestones: Earn 60 credits and a gpa of 2.0 or higher. Meet with your Advisor to discuss major, internships and research opportunities.

Junior Year *Fall* Semester

Course Code	Description	Cr	
GEO 483	Hydrogeology	4	
	Supporting Elective or 2nd Semester Science	3-4	
	Supporting Elective	4	
	*General Education Course	3-4	
		14-16	

Junior Year *Spring* Semester

Course Code	Description	Cr	
*GEO 305G	Global Climate Change	4	
GEO 484	Environmental Hydrogeology (or GEO482)	4	
GEO 420	Regional Climate Dynamics and Modeling (or GEO 422)	4	
	*General Education Course	3-4	
		15-16	

Year 3 Milestones: Earn 90 credits and a gpa of 2.0 or higher. Identify your GEO 493/494 independent research Professor, turn in your intent to graduate appl.

Senior Year *Fall* Semester

Course Code	Description	Cr	
GEO 300+	Water and Climate Sci. Option Elective	3-4	
GEO 300+	Water and Climate Sci. Option Elective	3-4	
	Supporting Elective	3-4	
	*General Education Course	3-4	
	*General Education Course	3	
		15-19	

Senior Year *Spring* Semester

Course Code	Description	Cr	
GEO 482	Remediation Technologies (or GEO484)	4	
GEO 422	Applied Climate Sci. (or GEO420)	4	
	*General Education Course	3-4	
	Supporting Elective (if needed)	3-4	
	Free elective (if needed)	3-4	
		17-20	

Year 4 Milestones: Earn 120 credits and a gpa of 2.0 or higher in CUM and CON. Complete all remaining required courses.

Total Credits to Graduate = 120

Number of required gen ed courses will vary based on outcomes satisfied by each course. Students may take additional supporting electives or free electives to reach 120 credits.

* General Education Course

+ Take MTH 103 with MTH 131

+ Take MTH 111 with MTH 141