

THE UNIVERSITY OF RHODE ISLAND

Physics & Physical Oceanography- BS

FALL 2021-SPRING 2022

129 Credits Total

ABOUT THE PHYSICS AND PHYSICAL OCEANOGRAPHY DEGREE:

The BS in Physics and Physical Oceanography program is unique in the entire United States. It is jointly offered by the Physics Department and the Graduate School of Oceanography. Students in this program are optimally prepared for graduate studies in oceanography.

STEP 1:

Major Requirements:

Course	Semester	Credits	Grade
PHY 203/273*		4	
PHY 204/274*		4	
PHY 205/275*		4	
PHY 306		3	
PHY 322		3	
PHY 331		3	
PHY 381		3	
PHY 382		3	
PHY 401		1	
PHY 410		3	
PHY 420		3	
PHY 452		3	
PHY 451		3	
PHY 483†		3	
PHY 484†		3	
MTH 4____		3	

†Senior physics research project (PHY 483/484) will be taken at the Graduate School of Oceanography under the supervision of a GSO faculty member.

*Course counts for general education credit

Additional Major Requirements:

Course	Semester	Credits	Grade
MTH 141*		4	
MTH 142*		4	
MTH 215		3	
MTH 243*		3	
MTH 244		3	
CHM 101*/102		4	
CSC 201* or 211		4	
OCG 110*		3	
OCG 123G*		4	
OCG 501		3	
OCG 510		3	
MCE 354		3	

Free elective credits

(to meet the 129 credits required for graduation):

Course	Credits	Course	Credits

It is recommended that students planning to attend an oceanography graduate school take PHY 520: Classical Dynamics. Students wishing to keep open the options of physics at the graduate level should take PHY 452: Quantum Mechanics.

Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.

B.S Physics and Physical Oceanography (2021-2022 Catalog)

Requirements by Type

please see reverse for requirements by year

For course titles and pre-requisite information, please visit: uri.edu/catalog

Fall	Spring	Milestones
Year One		
PHY 203/274 (Gen Ed A1)	PHY 204/274	Overall GPA 2.00
MTH 141 (Gen Ed B3)	MTH 142	Complete URI 101
OCG 110 (Gen Ed A1 & B4)	OCG 123 G (Gen EdA1, C2, G)	Complete 30cr (or consider summer/J-term courses)
Gen Ed	CHM 101/102 (Gen ed A1)	Meet with Advisor for credit check
URI 101		Complete MTH 141
		Move from UC to College of Arts & Sciences (Complete 24 credits and overall GPA 2.00
(15 credit total)	(16 credit total)	

Year Two		
PHY 205/275	PHY 306	Overall GPA 2.00
MTH 243	PHY 331 (Pre MTH 243)	Consider Minor area of study
CSC 201 or 211	MTH 244	
Gen Ed	Gen Ed	Meet with advisor
Gen Ed	Gen Ed	Complete 60cr
MTH 215		
(17 credit total)	(15 credit total)	

Year Three		
PHY 322 (Pre MTH 244)	PHY 401	Overall GPA 2.00
PHY 381	PHY 382	Declare and complete minor area of study (optional)
MTH 215	MCE 354	Complete Gen Ed requirements
Gen Ed	MTH 461	Complete 90cr
Gen Ed	Gen Ed	Meet with advisor
Gen Ed		
(18-19 credit total)	(15 credit total)	

Year Four		
PHY 410	PHY 452	Overall GPA 2.00
PHY 420	PHY 484	Complete 120cr
PHY 451	OCG 510	Meet with advisor to complete intent to graduate form by Oct. 1
PHY 483	Elective	
OCG 501	Elective	
Elective		
(16 credit total)	(16 credit total)	

Note: This plan is not intended to be prescriptive. Credits in transfer, as well as summer or j-term coursework, may result in deviations from the above recommendations.