

# THE UNIVERSITY OF RHODE ISLAND

**Physics & Physical Oceanography- BS**  
129 Credits Total

FALL 2019-SPRING 2020

## 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 425		3	
PHY 451		3	
PHY 483†		3	
PHY 484†		3	
PHY 510		3	

#### 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 211		4	
OCG 110		3	
OCG 123		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

† 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

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.**

# THE UNIVERSITY OF RHODE ISLAND

**Physics & Physical Oceanography- BS**  
129 Credits Total

FALL 2019-SPRING 2020

**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 (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

**STEP 2:**

General Education Credit Count			
At least 40 credits, no more than 12 credits with the same course code.			
Course	Cr.	Course	Cr.
		Total Gen Ed credits	40

**STEP 3:**

General Education Outcome Audit	
	Course
<b>KNOWLEDGE</b>	
A1. STEM	
A2. Social & Behavioral Sciences	
A3. Humanities	
A4. Arts & Design	
<b>COMPETENCIES</b>	
B1. Write effectively	
B2. Communicate effectively	
B3. Mathematical, statistical, or computational strategies	
B4. Information literacy	
<b>RESPONSIBILITIES</b>	
C1. Civic knowledge & responsibilities	
C2. Global responsibilities	
C3. Diversity and Inclusion	
<b>INTEGRATE &amp; APPLY</b>	
D1. Ability to synthesize	
<b>GRAND CHALLENGE</b>	
G. Check that at least one course of your 40 credits is an approved "G" course	

**SEE OPPOSITE SIDE FOR PROGRAM REQUIREMENTS.**

**NOTE:** This worksheet sheet is a snapshot of your entire curriculum. You must work with your advisor each term to discuss requirements to keep you on course for timely progress to complete this major. Official requirements for graduation are listed in the University Catalog.

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

## B.S Physics and Physical Oceanography (2019-2020 Catalog)

Requirements by Type  
*please see reverse for requirements by year*

For course titles and pre-requisite information, please visit: [uri.edu/catalog](http://uri.edu/catalog)

Fall	Spring	Milestones
<b>Year One</b>		
MTH 141 (Gen Ed)	MTH 142	Overall GPA 2.00
PHY 203/273	PHY 204/274	Complete URI 101
OCG 110 (Gen Ed)	OCG 123 (Gen Ed)	Complete 30cr (or consider summer/J-term courses)
Gen Ed	CHM 101/102	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 cr total)	(16 cr total)	

<b>Year Two</b>		
CSC 211	MTH 244	Overall GPA 2.00
MTH 243	PHY 306	Consider Minor area of study
PHY 205/275	PHY 410	Complete MTH 141 and 142 Meet with advisor
Gen Ed	Gen Ed	Complete 60cr
Gen Ed	Gen Ed	
(17 cr total)	(15 cr total)	

<b>Year Three</b>		
PHY 322	PHY 331	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	Gen Ed	Complete 90cr
Gen Ed	Gen Ed	Meet with advisor
Gen Ed		
(18-19 cr total)	(15 cr total)	

<b>Year Four</b>		
PHY 401	PHY 425	Overall GPA 2.00
PHY 420	PHY 484	Complete 120cr
PHY 451	PHY 510	Meet with advisor to complete intent to graduate form by Oct. 1
PHY 483	OCG 510	
OCG 510	Elective	
Elective		
(16 cr total)	(16 cr 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.