

**ABOUT THE PHYSICS BS DEGREE:**

The BS in Physics program provides the best preparation for students planning to move on to graduate studies in physics and for students seeking careers as professional physicists in industry or government. The curriculum provides a general background in both theoretical and experimental physics. It forms a foundation for further study at the graduate level toward an advanced degree, and also prepares the student for a career as a professional physicist in industry or government.

**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 451		3	
PHY 452 or 570		3	
PHY 455		3	
PHY 483 (capstone)		3	
PHY 484 (capstone)		3	
MTH 4____		3	

\*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	
MTH 3____ or 4____		3	
CSC 201* or 211		4	

**Free elective credits**

(to meet the 120 credits required for graduation):

Course	Credits	Course	Credits

Students are encouraged to use elective credits to develop a program of study as a minor in applied or interdisciplinary fields such as acoustics, geophysics, optics, energy, astronomy/astrophysics, atmospheric science, computational physics, mathematical physics, physics education, chemical physics, ocean physics, engineering physics, business, education, medicine and molecular biology, and language.

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

120 Credits Total

52 Credits in Major

**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:**

**STEP 3:**

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

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 (2020-2021 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 A1, B3)	MTH 142 (Gen Ed A1, B3)	Overall GPA 2.00
PHY 203/273 (Gen Ed A1)	PHY 204/274 (Gen Ed A1)	Complete URI 101
Gen Ed	CSC 201(gen ed B3) or 211	Complete 30cr (or consider summer/J-term courses)
Gen Ed	Gen Ed	Meet with Advisor for credit check
Gen Ed ?	Gen Ed ?	Complete MTH 141 and 142
URI 101		Move from UC to College of Arts & Sciences (Complete 24 credits and overall GPA 2.00
15-18 total credits	15-18 total credits	

<b>Year Two</b>		
MTH 215	MTH 244	Overall GPA 2.00
MTH 243	PHY 306 <i>Pre: PHY 204 and 205</i>	Consider Minor area of study
PHY 205/275 (gen ed A1, B3)	PHY 410 <i>Pre: MTH 215 and CSC 200 or CSC 201 or CSC 211. Credit or concurrent enrollment in MTH 244 and PHY 306</i>	Meet with advisor
Gen Ed	Gen Ed	Complete 60cr
Gen Ed	Gen Ed	
16 total credits	15 total credits	

<b>Year Three</b>		
PHY 322 <i>Pre: PHY 204 and MTH 244</i>	MTH 300/400-level	Overall GPA 2.00
PHY 381 <i>Pre: PHY 204 and 205</i>	PHY 331 <i>Pre: PHY 204 and MTH 243</i>	Declare and complete minor area of
Gen Ed	PHY 382 <i>Pre: PHY 205 or HPR 322</i>	Complete 90cr
Gen Ed	Elective	Meet with advisor
Gen Ed	Elective	Complete Gen Ed requirements
15 total credits	15 total credits	

<b>Year Four</b>		
PHY 401	PHY 452 <i>Pre: PHY 451 and MTH 461 or PHY 470</i>	Overall GPA 2.00
PHY 420 <i>Pre: PHY 205 and MTH 243.</i>	PHY 455 <i>Pre: PHY 451 and MTH 243</i>	Complete 120cr
PHY 451 <i>Pre: PHY 306 and 322, and MTH 215, and 244</i>	PHY 484 <i>Pre: PHY 381 and 382</i>	Meet with advisor to complete intent to graduate form by Oct 1
PHY 483 <i>Pre: PHY 381 and 382</i>	PHY 4_____	
Elective	Elective	
13 total credits	15 total credits	

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.