120 Credits Total 52 Credits in Major

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:

| 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 570 | | 3 | | |
| PHY 455 | | 3 | | |
| PHY 483 (capstone) | | 3 | | |
| PHY 484 (capstone) | | 3 | | |
| MTH 4 | | 3 | | |

Additional Major Requirements:

| 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 | C |
|--------|---------|---|
| | | |
| | | |
| | | |
| | | |
| | | |

| 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.

^{*}Course counts for general education credit

Physics-BS

THE UNIVERSITY OF RHODE ISLAND

FALL 2023-SPRING 2024

120 Credits Total52 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.

<u>STEP 2:</u>

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 | |
| KNOWLEDGE | | |
| A1. STEM | | |
| A2. Social & Behavioral Sciences | | |
| A3. Humanities | | |
| A4. Arts & Design | | |
| COMPETENCIES | | |
| B1. Write effectively | | |
| B2. Communicate effectively | | |
| B3. Mathematical, statistical, or | | |
| computational strategies | | |
| B4. Information literacy | | |
| RESPONSIBILITIES | | |
| C1. Civic knowledge & | | |
| responsibilities | | |
| C2. Global responsibilities | | |
| C3. Diversity and Inclusion | | |
| INTEGRATE & APPLY | | |
| D1. Ability to synthesize | | |
| GRAND CHALLENGE | | |
| 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.