

*This is a sample and not the only way to complete this plan. Number of credits are in parentheses. \*Some classes have prerequisites.*

**Year 1**

Fall	Winter	Spring	Steps for Success
PHYS 1000 From Quarks to the Cosmos (2)	PHYS 1210 Mechanics* (4)	PHYS 1220 Electricity and Magnetism* (4)	
MATH 1334 Calculus I* (5)	PHYS 1211 Mechanics Lab* (1)	PHYS 1220 Electricity and Magnetism Lab* (1)	
UCOR Module I (5)	MATH 1335 Calculus II*	MATH 1336 Calculus III* (5)	
UCOR Module I (5)	UCOR Module I (5)	UCOR Module I (5)	

**Year 2**

Fall	Winter	Spring	Steps for Success
PHYS 1230 Waves and Optics* (4)	PHYS 2030 Thermodynamics* (2)	PHYS 2050 Modern Physics* (5)	
PHYS 1231 Waves and Optics Lab* (1)	MATH 2330 Multivariable Calculus* (3)	PHYS 2060 Modern Physics Laboratory* (3)	
MATH 2320 Linear Algebra* (3)	UCOR Module II* (5)	MATH 2340 Differential Equations* (4)	
CPSC 1220 or ECEGR 2000 (Programming)* (5)	General Elective (5)	UCOR Module II* (5)	
UCOR Module II* (5)			

**Year 3**

Fall	Winter	Spring	Steps for Success
PHYS 2500 Mathematical Methods for Physics* (4)	PHYS 3300 Electromagnetic Field Theory* (5)	PHYS 3850 Quantum Mechanics* (5)	
PHYS 3100 – Classical Mechanics* (5)	UCOR Module III* (5)	PHYS Elective (5)	
UCOR Module III* (5)	General Elective (5)	General Elective (5)	

**Year 4**

Fall	Winter	Spring	Steps for Success
PHYS 4870 Senior Synthesis* (3)	UCOR Module III* (5)	PHYS Elective (5)	
General Elective (5)	General Elective (5)	General Elective (5)	
General Elective (5)	General Elective (5)	General Elective (5)	

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## University Core Requirements

UCOR classes are listed in the sample plan by what module is recommend. See below for UCOR course titles listed by Module. See [my.seattleu.edu](http://my.seattleu.edu) for prerequisites and [www.seattleu.edu/core](http://www.seattleu.edu/core) for course descriptions. Honors and Matteo Ricci students have different Core requirements.

### Module I

**UCOR 1100** Academic Writing Seminar  
*UCOR 1200 Quantitative Thinking (satisfied in major)*  
**UCOR 1300** Creative Expression & Interpretation  
**UCOR 1400** Inquiry Seminar in the Humanities  
**UCOR 1600** Inquiry Seminar in the Social Sciences  
*UCOR 1800 Inquiry Seminar in the Natural Sciences (satisfied in major)*

### Module II

**UCOR 2100** Theological Explorations  
**UCOR 2500** Philosophy of the Human Person  
**UCOR 2900** Ethical Reasoning **OR** **UCOR 2920** Ethical Reasoning Health Care

### Module II

**UCOR 3100** Religion in a Global Context  
**UCOR 3400** Humanities and Global Challenges  
**UCOR 3600** Social Sciences and Global Challenges  
**UCOR 3800** Natural Sciences and Global Challenges (satisfied in major)

## Important Major Information

- Credits: minimum of 180 credits
- Credits in Major: 89
- Minimum cumulative GPA: 2.00
- Minimum Major GPA: 2.00 (some scholarships may require higher)
- Please see [my.seattleu.edu](http://my.seattleu.edu) for elective options

## Resources for Success

- Map out your own plan through [My.SeattleU.edu](http://My.SeattleU.edu)
- Meet with a Career Coach from the [Career Engagement Center](#)
- Sign up for academic support with [Learning Assistance Programs](#)
- Explore career options at the ["What Can I Do with This Major"](#) page
- Learn more about academic advising on the [Advising Services](#) page

## Not

- The BA in Physics degree is for students planning on careers in teaching, science writing, public policy, business, or in combination with another major.
- Assumes trigonometry (MATH 1022) not needed due to placement exam or college credit
- Assumes placement into MATH 1334 by SAT/ACT/SU math placement exam or college credit; students not placing into MATH 1334 will need to take MATH 1021 as an elective
- PHYS electives vary from year to year. Typically, the PHYS ELECTIVES rotate through the following course possibilities: PHYS 3400 Nonlinear Dynamical Systems and Chaos; PHYS 3620 Introduction to Astrophysics; PHYS 3630 Introduction to Geophysics; PHYS 4300 Modern Optics for Physicists and Engineers; PHYS 4500 Atomic Physics; PHYS 4700 Solid-State Physics; and PHYS 4860 Particle and Nuclear Physics. But new courses may appear as well.
- Note that PHYS 1000 From Quarks to the Cosmos (2 cr, Fall) is not required but is strongly recommended for first-term first-year physics majors.
- \* Asterisk denotes prerequisite(s) and corequisite(s)



Use MySeattleU Student Planning to plan your courses and work closely with your academic advisor on your educational plan. You are responsible for knowing information and tracking changes. Contact your Advising Center for support.

Science & Engineering Advising  
[se-adv@seattleu.edu](mailto:se-adv@seattleu.edu)

Seattle U Advising Services  
<http://www.seattleu.edu/advising>