

DEGREE REQUIREMENTS	CURRICULUM NOTES
<p><b>Credits:</b> minimum of 180 credits</p> <p><b>Credits in major:</b> 103</p> <p><b>GPA cumulative minimum:</b> 2.0</p> <p><b>GPA major minimum:</b> 2.0</p>	<ul style="list-style-type: none"> <li>The BS in Physics degree is for students planning on tech employment or graduate study in physics, astronomy, earth and space sciences, or engineering</li> <li>*Assumes trigonometry (MATH 1022) not needed due to placement exam or college credit</li> <li>Assumes placement into MATH 1334 by SAT/ACT/SU math placement exam or college credit</li> <li>PHYS electives vary from year to year. Typically rotating through the following course possibilities: PHYS 3400 Nonlinear Dynamical Systems and Chaos; PHYS 3620 Introduction to Astrophysics; PHYS 3630 Introduction to Geophysics; PHYS 3910 Computational Physics; PHYS 4300 Modern Optics for Physicists and Engineers; PHYS 4500 Atomic Physics; PHYS 4700 Solid-State Physics; and PHYS 4860 Particle and Nuclear Physics</li> <li>PHYS 1000 From Quarks to the Cosmos (2 cr, Fall) is not required but is strongly recommended for first-term freshman physics majors</li> </ul> <p>For complete information on courses, pre-requisites, etc., use this information in conjunction with the online Catalog (<a href="http://catalog.seattleu.edu/">http://catalog.seattleu.edu/</a>) for the current year.</p> <p>The example below assumes you have completed no degree requirements. Your personal program of study may vary from this due to prior educational experience or individual goals.</p> <p><sup>P</sup> Indicates prerequisite required for course    <sup>C</sup> Indicates co-requisite required for course</p>

	FALL		WINTER		SPRING	
	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS
<b>FRESHMAN</b>	PHYS 1000 From Quarks to the Cosmos	2	<sup>P</sup> PHYS 1210/1211 Mechanics/Mechanics Lab	5	<sup>P</sup> PHYS 1220/1221 Electricity & Magnetism/Elec & Mag Lab	5
	<sup>P</sup> MATH 1334 Calculus I ( <sup>C</sup> MATH 1022 Trig must be sat)*	5	<sup>P</sup> MATH 1335 Calculus II	5	<sup>P</sup> MATH 1336 Calculus III	5
	UCOR 1XXX	5	UCOR 1XXX	5	UCOR 1XXX	5
	UCOR 1XXX	5				
<b>SOPHOMORE</b>	<sup>P</sup> PHYS 1230/1231 Waves & Optics/Waves & Optics Lab	5	<sup>P</sup> PHYS 2030 Thermodynamics	2	<sup>P</sup> PHYS 2050 Modern Physics	5
	<sup>P</sup> MATH 2320 Linear Algebra	3	<sup>P</sup> MATH 2330 Multivariable Calculus	3	<sup>P</sup> PHYS 2060 Modern Physics Lab	3
	CPSC 1220 or ECEGR 2000 (Programming)	5	UCOR 2XXX	5	<sup>P</sup> MATH 2340 Differential Equations	4
	UCOR 2XXX	5	General Elective	5	UCOR 2XXX	5
<b>JUNIOR</b>	<sup>P</sup> PHYS 2500 Mathematical Methods for Physics	4	<sup>P</sup> PHYS 3300 Electromagnetic Field Theory	5	<sup>P</sup> PHYS 3850 Quantum Mechanics	5
	<sup>P</sup> PHYS 3100 Classical Mechanics	5	<sup>P</sup> PHYS 3700 Advanced Physics Laboratory	5	<sup>P</sup> PHYS Elective (3000 level or 4000 level)	5
	UCOR 3XXX	5	UCOR 3XXX	5	General Elective	5
<b>SENIOR</b>	<sup>P</sup> PHYS 4100 Advanced Classical Physics	5	<sup>P</sup> PHYS 4200 Statistical and Thermal Physics	4	<sup>P</sup> PHYS Elective (3000 level or 4000 level)	5
	<sup>P</sup> PHYS 4870 Senior Synthesis	3	PHYS Elective (3000 or 4000 level)	4	General Elective	5
	Science Elective	5	UCOR 3XXX	5	General Elective	5

CORE MODULE I REQUIREMENTS	CORE MODULE II REQUIREMENTS	CORE MODULE III REQUIREMENTS	
UCOR 1100 Academic Writing Seminar	UCOR 2100 Theological Explorations	UCOR 3100 Religion in a Global Context	
UCOR 1200 Quantitative Reasoning – <b>satisfied in major</b>	UCOR 2500 Philosophy of the Human Person	UCOR 3400 Humanities & Global Challenges	
UCOR 1300 Creative Expression and Interpretation	UCOR 2900-2940 Ethical Reasoning	UCOR 3600 Social Sciences & Global Challenges	
UCOR 1400 Inquiry Seminar in the Humanities			
UCOR 1600 Inquiry Seminar in the Social Sciences			
UCOR 1800 Inquiry Seminar Natural Sci. – <b>satisfied in major</b>			



**Science and Engineering Advising Center**  
 206.296.2500, Engineering 300  
 8:30am – 4:30pm Monday - Friday  
<http://www.seattleu.edu/scieng/advising/>

**This is a sample plan that is subject to change.**  
**Work closely with your academic advisor to plan your program of study and the other co-curricular components of your educational plan.**

Updated 2/18/2020