

DEGREE REQUIREMENTS	CURRICULUM NOTES
<p><b>Credits:</b> minimum of 180 credits</p> <p><b>Credits in major:</b> 98</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; students not placing into MATH 1334 will need to take MATH 1021 as an elective</li> <li>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 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. But new courses may appear as well. PHYS 4990 Undergraduate Research is highly recommended but not required. See the Physics Department Chair.</li> <li>Note that PHYS 1000 From Quarks to the Cosmos (2 cr, Fall) is not required but is strongly recommended for first-term physics majors.</li> </ul> <p><b>For complete information on courses, prerequisites, 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.</b></p>

*This example assumes you have completed no degree requirements. Your personal program may vary from this due to prior educational experience or individual goals.*

	FALL		WINTER		SPRING	
	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS
<b>FRESHMAN</b>	PHYS 1000 From Quarks to the Cosmos	2	PHYS 1210+1211 Mechanics	5	PHYS 1220+1221 Electricity and Magnetism	5
	MATH 1334 Calculus I	5	MATH 1335 Calculus II	5	MATH 1336 Calculus III	5
	UCOR 1XXX	5	UCOR 1XXX	5	UCOR 1XXX	5
	UCOR 1XXX	5				
<b>SOPHOMORE</b>	PHYS 1230+1231 Waves and Optics	5	PHYS 2040 Special Relativity	3	PHYS 2080 Intro to Quantum Physics	4
	MATH 2320 Linear Algebra	3	MATH 2330 Multivariable Calculus	3	PHYS 2060 Modern Physics Laboratory	3
	CPSC 1220 or ECEGR 2000 (Programming)	5	UCOR 2XXX	5	MATH 2340 Differential Equations	4
	UCOR 2XXX	5	General Elective	5	UCOR 2XXX	5
<b>JUNIOR</b>	PHYS 2500 Mathematical Methods for Physics	4	PHYS 3300 Electromagnetic Field Theory	5	PHYS 3850 Quantum Mechanics	5
	PHYS 3100 Classical Mechanics	5	PHYS 3700 Advanced Physics Laboratory	5	PHYS Elective (3000 or 4000 level)	5
	UCOR 3XXX	5	UCOR 3XXX	5	General Elective	5
	PHYS 4990 Undergraduate Research	1				
<b>SENIOR</b>	PHYS 4100 Advanced Classical Physics	5	PHYS 4200 Statistical and Thermal Physics	4	PHYS Elective (3000 or 4000 level)	5
	PHYS 4870 Senior Synthesis	3	PHYS Elective (3000 or 4000 level)	4	General Elective	5
	Science Elective	5	UCOR 3XXX	5	General Elective	5
	PHYS 4990 Undergraduate Research	1				

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 3400-3440 Humanities Global Challenge
UCOR 1300 Creative Expression and Interpretation	UCOR 2900-2940 Ethical Reasoning	UCOR 3600-3640 Social Sciences Global Challenge
UCOR 1400-1440 Inquiry Seminar in the Humanities		
UCOR 1600-1640 Inquiry Seminar in the Social Sciences		
UCOR 1800-1840 Inq Sem in the Natural Sciences- <b>sat in major</b>		