PHYSICS

Bachelor of Arts in Physics

4 YEAR TYPICAL PROGRAM OF STUDY

2014-2015

DEGREE REQUIREMENTS	CURRICULUM NOTES
Credits: minimum of 180 credits **Credits in major:** 88 **GPA cumulative minimum**: 2.0 **GPA major minimum :** 2.0	• Assumes trigonometry (MATH 1322) 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 1321 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. • Recommended (but not required) additional physics courses: PHYS 3700 Advanced Physics Laboratory (4 cr, Winter) and PHYS 3850 Quantum Mechanics (5 cr, Spring). Note that PHYS 1000 From Quarks to the Cosmos (2 cr, Fall) is not required but is strongly recommended for first-term freshman physics majors. **For complete information on courses, prerequisites, etc, use this information in conjunction with the online Catalog (http://catalog.seattleu.edu/) for the current year.**

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
FRESHMAN	PHYS 1000 From Quarks to the Cosmos	2	PHYS 1210 Mechanics	5	PHYS 1220 Electricity and Magnetism	5
	MATH 1334 Calculus I	5	MATH 1335 Calculus II	5	MATH 1336 Calculus III	5
	UCOR 1XXX University Core	5	UCOR 1XXX University Core	5	UCOR 1XXX University Core	5
	UCOR 1XXX University Core	5				
SOPHOMORE	PHYS 1230 Waves and Optics	5	ECEGR 1010 Engineer. Problem Solving with MATLAB	3	PHYS 2050 Modern Physics	5
	MATH 2330 Multivariable Calculus	3	MATH 2320 Linear Algebra	3	PHYS 2060 Modern Physics Lab	3
	UCOR 2XXX University Core	5	UCOR 2XXX University Core	5	MATH 2340 Differential Equations	4
			General Elective	5	UCOR 2XXX University Core	5
JUNIOR	PHYS 2500 Mathematical Methods for	4	PHYS 3300 Electromagnetic Field Theory	5	PHYS Elective (PHYS 3850 recommended)	5
	PHYS 3100 Classical Mechanics	5	General Electives	10	UCOR 3XXX University Core	5
	UCOR 3XXX University Core	5			General Elective	5
SENIOR	Science Elective	5	Science Elective	5	Science Elective	5
	PHYS 4870 Senior Synthesis	3	General Electives	10	General Electives	10
	UCOR 3XXX University Core	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-**satisfied in major**	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-**sat in major**		

COLLEGE OF SCIENCE & ENGINEERING
Advising Center, ENGR 300

Work closely with your academic advisor to plan your program of study and the other co-curricular components of your educational plan.