

PHYSICS – B.S. – 2021-22

To the student: Please make sure you are using the correct check sheet based on your enrollment year. YOU are responsible for making sure you are on the correct check sheet and completing all program requirements accurately and on time.

Min Total Hours Required: 120
Total Lib Arts Hrs Req'd: 60
Min overall GPA for mjr accept & grad: 2.0
Other: Min major GPA of 2.0
Other: No grade less than C- in major

Residence Requirements:
31 Hrs at RWC
15 Hrs in Major at RWC
Of last 31 Hrs, 24 at RWC

Student Name: _____

Shared Core		SHr	Grd
FYSE 1000	First Year Seminar	2	
COMP 1010	Prin Writing	3	
PHST 1300	Personal Wellness	1	
BIBL 1010	Encounter the OT	3	
BIBL 1020	Engaging the NT	3	
ECON 1050	Personal Financial Success	1	
HIST 1400	Western History Global Cont	3	
SRSE 4100	Senior Seminar	2	

Choice Core		SHr	Grd
COMP 1020	Writing & Research	3	
PHIL 2202	Philosophical Ethics	3	
LITR 1010	Intro Literature	3	
COMM 1105	Fund of Oral Communication	3	
	Behavioral Science	3	
	Social Science	3	
N/A	Lab Science	N/A	N/A
N/A	Mathematics	N/A	N/A
	Fine Arts	4	

Foreign Language		SHr	Grd
	Foreign Language♦	3	
	Foreign Language♦	3	
	Foreign Language♦	3	

Honors program students will have substitutions for several Gen Ed courses

♦Or proficiency as outlined in the College catalog

Other Elective Credits to Reach 120 Hours		SHr	Grd

Major Requirements: 52 Hrs (min 30 hrs PHYS)		SHr	Grd
CSCI 2010	Computer Science I	4	
MATH 2281	Calculus I	4	
MATH 2282	Calculus II	4	
MATH 2283	Calculus III	4	
PHYS 2001	Phys for Engrns/Scientists I	3	
PHYS 2001L	Phys for Engrns/Scientists I Lab	1	
PHYS 2002	Phys for Engrns/Scientists II	3	
PHYS 2002L	Phys for Engrns/Scientists II Lab	1	
PHYS 2003	Modern Physics	3	
PHYS 2003L	Modern Physics Lab	1	

Four upper-division PHYS courses (12 Hours):
(One of the following may be replaced with a different advanced Physics course if approved via a Course Substitution form.)

PHYS 3010	Classical Mechanics	3	
PHYS 3020	Electricity and Magnetism	3	
PHYS 4030	Quantum Physics	3	
CR PHY	Thermodynamics	3	

Physics electives from the following (6 Hours):
~ recommended for pre-engineering students only
= encouraged for non-engineering majors

PHYS 2110~	Statics	3	
PHYS 2120~	Electric Circuits	3	
PHYS 3220	Optics	4	
PHYS 4050	Nuclear & Particle Physics	3	
CR PHY=	Approved Physics course		

Science/Math elective from the following (3 Hours):
^ the addition of these two courses (or others with at least one at the 3000-/4000-level) will result in a minor in mathematics

MATH 3210^	Differential Equations	3	
MATH 3110^	Linear Algebra	3	
MATH 4710	Mathematical Modeling	3	
CR PHY	Approved Physics course		

Career Emphasis elective from the following (3 Hours):
(A second course in the selected emphasis is recommended.)

NSCI 1200	Descriptive Astronomy	3	
BIOL 1110	Gen Biology I with Lab	4	
BUAD 1010	Introduction to Business	3	
CHEM 1110	Prin of Chemistry I w/ Lab	4	
CSCI 2020	Object-Oriented Programming	3	
MGMT 2020	Principles of Management	3	

Students enrolled in a **3+2 Engineering Program** complete the Physics B.S. (or Math B.S.) degree by transferring sufficient and proper credits from their chosen institution to fulfill degree requirements. Engineering students must consult with the Engineering Advisor in the Computer Science, Mathematics and Physics Department.