PHYSICS, BACHELOR OF SCIENCE (BS)

Recommended Four-Year Plan

Course	Title	Hours	
First Year			
Fall	on two		
ENGL 102	Critical Writing	3	
ESAP 101	FYRST Seminar *	1	
MATH 225	Calculus I	4	
PHYS 211	General Physics I with Lab	4	
SUBJ 139	Foundations of Academic Discovery ¹	3	
	Hours	15	
Spring			
ENGL 104	Critical Reading	3	
PHYS 213	General Physics III/ Lab	4	
MATH 230	Calculus II	4	
Rock Studies 2 Requirement (https://catalog.sru.edu/			
undergraduate/rock-	studies/rock-studies-program/)		
	Hours	14	
Second Year			
Fall			
CHEM 107	General Chemistry I	4	
& CHEM 111	and General Chemistry I Lab		
MATH 231	04.04.40	4	
PHYS 212	General Physics II with Lab	3	
Select one of the foll		3	
COMM 200	Civil Discourse: Theory & Practice		
PHIL 110	Ethics and Civil Discourse		
POLS 235	Civil Discourse and Democracy		
Rock Studies 2 Requirement (https://catalog.sru.edu/ 3 undergraduate/rock-studies/rock-studies-program/)			
Declare a Thematic Thread ²			
	Hours	17	
Spring			
CHEM 108	General Chemistry II	4	
& CHEM 112	and General Chemistry II Lab		
CPSC 146	Programming Principles	3	
MATH 301	Differential Equations I	3	
•	irement (https://catalog.sru.edu/	3	
undergraduate/rock-	studies/rock-studies-program/)		
Free Elective		3	
	Hours	16	
Third Year			
Fall			
MATH 240	Linear Algebra and Differential Equations	3	
PHYS 312	Modern Physics 1	3	
PHYS 314	Statics	3	
PHYS 331	Mathematical Methods of Physics	3	

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•	uirement (https://catalog.sru.edu/ c-studies/rock-studies-program/)	3
	Hours	15
Spring		
PHYS 375	Thermal Physics	3
PHYS 315	Dynamics	3
PHYS 381 or PHYS 382	Advanced Physics Laboratory or Optics Laboratory	2
PHYS 412	Modern Physics 2	1
Free Elective		3
Free Elective		3
	Hours	15
Fourth Year		
Fall		
PHYS 371	Physical Optics	3
Physics Elective		3
Rock Studies 2 Req undergraduate/rock	3	
Rock Studies 2 Req undergraduate/rock	3	
Free Elective		2-3
	Hours	14-15
Spring		
PHYS 381	Advanced Physics Laboratory	2
or PHYS 382	or Optics Laboratory	
PHYS 410	Electricity and Magnetism	3
PHYS 480	Quantum	3
Rock Studies 2 Req undergraduate/rock	3	
Technical Elective		3
	Hours	14
	Total Hours**	120-121

Course offered in multiple subjects; cannot take course in first major subject.

Major Code: 6164 Revised: 12-2019

Work with your Academic Adviser to declare a Thematic Thread by the end of your fall semester in your second year.

^{*} Students are encouraged to take ESAP 101 as a Free Elective.

^{**} This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.