

# Slippery Rock University of Pennsylvania – Curriculum Guide

## Bachelor of Arts in Physics

### LIBERAL STUDIES REQUIREMENTS (48-49 credits)

See Liberal Studies Guide for Goal and Enrichment choices

GOAL COURSE REQUIREMENTS				
Complete Goal requirements as indicated below (39-40 credits)				
✓	Course	Title	Cr	Gr
<b>Basic Requirements</b>				
	ENGL 101 <u>and</u>	College Writing I <u>and</u>	3	
	ENGL 103 <u>or</u>	College Writing II <u>or</u>	3	
	ENGL 102	College Writing	3	
	COMM 200	Public Speaking ★	3	
	ENGL 210	Interpreting Literature ★	3	
<b>The Arts</b>				
	Goal		3	
<b>Global Community (see Liberal Studies Guide for details)</b>				
	Goal – Non-US		3	
	Goal – Non – US		3	
	Goal – US		3	
<b>Human Institutions/Interpersonal Relationships</b>				
	Goal		3	
<b>Science, Technology &amp; Math</b>				
	CHEM 107	Chemistry I ★◇	3	
	CHEM 111	General Chemistry I Lab ★◇	1	
	Goal – Sci		3	
	MATH 225	Calculus I ★◇	4	
<b>Challenges of the Modern Age</b>				
	Goal		3	
<b>ENRICHMENT COURSE REQUIREMENTS</b>				
Choose one course from three of the following Enrichment areas. (9 credits)				
<b>The Arts</b>				
<b>Global Community</b>				
<b>Human Institutions/Interpersonal Relationships</b>				
<b>Science, Technology &amp; Math</b>				
	MATH 230	Calculus II ★◇	4	

OTHER BASIC REQUIREMENTS				
Check with your advisor or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.				
	ACSD110	Beginning Algebra	3	

BA MODERN LANGUAGE REQUIREMENT				
Exemption from these courses may be possible based on the student's performance on a placement exam given by the Modern Language and Cultures department. (0-9 credits)				

#### IMPORTANT CURRICULUM GUIDE NOTES

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisors to ensure accurate progress towards degree completion. *The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.*

- ★ Indicates this course may have a prerequisite. Please refer to the Undergraduate Online Catalog.
- ◇ Indicates this course may count as a Major Requirement and a Liberal Studies Requirement, **but you will only receive credit once towards your 120 credit total.**

Student Name: \_\_\_\_\_

Advisor's Name: \_\_\_\_\_

Date: \_\_\_\_\_

### MAJOR REQUIREMENTS (46 credits)

✓	Course	Title	Cr	Gr
<b>Required Physics Courses (19 credits)</b>				
	PHYS 212	General Physics II / Lab ★	4	
	PHYS 213	General Physics III / Lab ★	3	
	PHYS 314	Engineering Mechanics I★	3	
	PHYS 331	Mathematical Methods of Physics ★	3	
	PHYS 381	Advanced Physics Lab ★	2	
	PHYS 411	Modern Physics ★	4	
<b>Required Physics Electives (6 credits)</b>				
	PHYS 301 or CHEM 301	Physical Chemistry I ★	3	
	PHYS 315	Engineering Mechanics II: Dynamics ★	3	
	PHYS 410	Electricity and Magnetism ★	3	
	PHYS 480	Quantum ★	3	
<b>Related Field Work ( 21 credits)</b>				
	CPSC 140	Intro to Programming ★◇	3	
	MATH 230	Calculus II ★◇	4	
	MATH 231	Calculus III ★	4	
	MATH 240	Linear Algebra and Differential Equations ★	3	

### NATURAL SCIENCE AND MATH COLLEGE-WIDE REQUIREMENTS

Students must take the following four courses (12 credits)

	CHEM 107	General Chemistry I ★◇	3	
	CHEM 111	General Chemistry I Lab ★◇	1	
	MATH 125 or MATH 225	Pre Calculus ★◇ or Calculus I ★◇	4	
	PHYS 201 or PHYS 211	Elementary Physics w/Lab◇ or General Physics I/Lab ★◇	4	

### COMPUTER COMPETENCY (for students entering Fall 2008 and after)

Students must demonstrate "computer competency" by:

	Passed Exam	Pass Computer Competency Exam at SRU Orientation		
<b>OR</b>	CPSC _____	<b>Complete one of the following courses:</b> CPSC 100, 110, 130 or 210 at SRU or another post-secondary institution	1-3	

### ELECTIVES (4-14 credits)


**QPA REQUIREMENT**  
**2.00 or higher Major QPA**  
**2.00 or higher Overall QPA**

**SlipperyRock**  
 University  
 of Pennsylvania

PHYSICS – BA  
 Effective Fall 2003 to present  
 Enrollment Services  
 Revised 2-2012