

PHYSICS - ENGINEERING AND INDUSTRY EMPHASIS REQUIREMENTS (BA/BS)

Code	Title	Units
Major Requirements - 40 units ^{1, 2, 3}		
PHYSCS 180	PHYSICS FOR SCIENTISTS AND ENGINEERS I	5
PHYSCS 181	PHYSICS FOR SCIENTISTS AND ENGINEERS II	5
PHYSCS 190	FRONTIERS OF ENGINEERING AND PHYSICS	1
PHYSCS 205	MECHANICS - STATICS	3
PHYSCS 221	INTERMEDIATE LABORATORY	2
PHYSCS 310	MECHANICS - DYNAMICS	3
PHYSCS 324	METHODS OF THEORETICAL PHYSICS	4
PHYSCS 325	CLASSICAL ELECTROMAGNETISM	3
PHYSCS 330	ANALOG AND DIGITAL ELECTRONICS	4
PHYSCS 344	MODERN PHYSICS	4
PHYSCS 360	OPTICS	4
PHYSCS 389	JUNIOR SEMINAR	1
PHYSCS 489	SENIOR SEMINAR	1
Total Units		40

¹ This major is recommended for students intending to attend engineering school.

² Departmental Exit Interview is required.

³ An approved minor is required for this major.

Code	Title	Units
Unique Requirements - 23 units		
CHEM 102	GENERAL CHEMISTRY I	5
CHEM 104	GENERAL CHEMISTRY II	5
COMPSCI 170	INTRODUCTION TO PYTHON PROGRAMMING	3
or COMPSCI 174	INTRODUCTION TO C++	
MATH 255	CALCULUS AND ANALYTIC GEOMETRY III	4
MATH 355	MATRICES AND LINEAR ALGEBRA	3
MATH 361	DIFFERENTIAL EQUATIONS	3
Total Units		23

Code	Title	Units
Writing Requirement - 3 units		
PWP 371	WRITING IN THE SCIENCES	3
or ENGLISH 370	ADVANCED COMPOSITION	
Total Units		3