

BACHELOR OF SCIENCE IN PHYSICS

Stu ID: _____
 Name: _____
 Major: Physics - BS
 Minor: _____

Date: _____
 Advisor: _____
 Catalog: 2017-2018
 Ant Grad: _____

Major Courses

10 Courses; Minimum 30 credits required; 24 credits must be from SU

PHY53-154	Fundamentals of Physics I		
PHY53-164	Fundamentals of Physics II		
PHY53-214	Modern Physics		
PHY53-324	Electromagnetism I		
PHY53-334	Classical Mechanics I		
PHY53-872	Capstone Course		

Select one from the following:

PHY53-424	Quantum Physics		
CHE51-724	Physical Chemistry		

Select three courses from the following:

PHY53-404	Electronics		
PHY53-413	Classical Mechanics II		
PHY53-433	Electromagnetism II		
PHY53-434	Statics		
PHY53-443	Thermodynamics		
PHY53-454	Math Methods in Physical Science		

Required Supporting Courses:

MAT52-154	Calculus I		
MAT52-254	Calculus II		
MAT52-354	Calculus III		
MAT52-754	Differential Equations I		

*Sufficient advanced mathematics for a mathematics minor is highly recommended

B.S. Core Courses:

BIO50-123	Living Systems		
BIO50-121	Investigation into Living Systems		
BIO50-133	Molecular and Population Genetics		
BIO50-131	Investigation into Genetics		
CHE51-153 or 143	Principles of General Chemistry		
CHE51-151 or 141	Chemical Methods and Techniques Lab		
CHE51-163	Chemical Kinetics & Equilibrium		
CHE51-161	Chemical Kinetics & Equilibrium Lab		
MAT52-154	Calculus I	SC	0
PHY53-154	Fundamentals of Physics I	MAJOR	0
PHY53-164	Fundamentals of Physics II	MAJOR	0

Select one from the following:

MAT52-114	Introduction to Statistics		
MAT52-254	Calculus II (required under Supporting Courses)	SC	0
CSC54-184	Computer Science I		

University Electives or Minor Courses (optional):

GENERAL EDUCATION REQUIREMENTS

At least 30 total credits required, minimum 3 credits required per course

General Education Part I

First Year/Adv. Entry Seminar:

UST05-014 or UST05-214			
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Foreign Language (3 sem.)

Social Justice Course (may double count with any requirement):

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2 different FRAs:

Total Earned Credits:	0
Total Southwestern Credits:	
Total Major Credits:	0
Total Gen Ed Credits:	0

Exploration & Breadth - GE Part II

Six total courses

PHY major and elective courses cannot be used to satisfy E&B requirements. Additionally, any CHE course used to fulfill a major requirement cannot be used to satisfy E&B requirements.

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:

MAT52-154	Calculus I	SC	0
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Social Sciences:

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Fine Arts:

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Select two additional courses from the four areas listed above. Courses must be from different areas and from different subjects from above courses:

*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area. A major requires at least 30 credits, more than 50% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). 60% of the major credits and 12 minor credits must be completed in residence at SU. With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance. For a complete list of graduation requirements, see catalog.

Graduation Requirements:

- Minimum of 127 credits: _____
- Cumulative GPA > 2.0 _____
- GPA > 2.0 for Major, Minor and/or Areas of Concentration _____
- Less than C- grade in major/minor/core? _____
- At least 64 credits completed at Southwestern* _____
- No more than 56 credits of any 5 digit prefix** _____
- Major credits completed (min 30 required) _____
- 60% of Major courses completed at Southwestern (24cr) _____
- 50% of Major courses are upper level (20cr) _____

Notes:

Minor (optional):

Minimum 18 credits

Minimum 12 upper level credits

Minimum of 12 credits taken at Southwestern

Minimum 2.0 minor courses CGPA

Other:

Degree Audit Completed (Due one year before grad date)

Grad Application Submitted (Due start of final semester)

