

BACHELOR OF SCIENCE IN PHYSICS

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

Date: _____
Advisor: _____
Catalog: 2018-19
Grad Date: _____

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		
<i>Select one from the following:</i>			
PHY53-424	Quantum Physics		
CHE51-714	Physical Chemistry: Quantum & Stat Mechanics		
<i>Select three courses from the following:</i>			
PHY53-254	Observing the Universe		
PHY53-404	Electronics		
PHY53-413	Classical Mechanics II		
PHY53-433	Electromagnetism II		
PHY53-434	Statics		
PHY53-454	Math Methods in Physical Science I		
PHY53-463	Dynamics		
PHY53-473	Thermodynamics		

Required Supporting Courses:

CHE51-103/1	Principles of General Chemistry/Lab	E&B	0
MAT52-154	Calculus I	E&B	0
MAT52-254	Calculus II		
MAT52-354	Calculus III		
MAT52-754	Differential Equations I		

Select one of the following:

BIO50-123/1	Living Systems/Invest. Into Living Systems*		
BIO50-133/1	Molecular and Population Genetics/Lab*		

*Sufficient advanced mathematics for a mathematics minor is highly recommended

University Electives:

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

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:

MAT52-154	Calculus I		
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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

CHE51-103/1	Principles of General Chemistry/Lab (DVNS)		
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*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

Notes:

Graduation Requirements:

Minimum of 127 credits: _____
 Cumulative GPA > 2.0 _____
 GPA > 2.0 for Major and/or Areas of Concentration _____
 All grades C- or higher in major/minor/core? _____
 At least 64 credits completed at Southwestern* _____
 Less than 56 credits of any 5 digit prefix** _____
 Major credits completed (min 30 required) _____
 60% of Major courses completed at Southwestern (24cr) _____
 Gen Ed has minimum of 30 credits _____

Minor (optional):

Minimum 18 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) _____
 Approved to be part time in last semester? _____