## **BACHELOR OF ARTS**

\*\* NOTE: Students must complete 90 credits before leaving Southwestern.

## **Applied Physics Major Courses 2019-2021**

17 Courses; Minimum 30 credits required; 35 credits must be completed at SU

\*\*Note: Students interested in this major should consult the Pre-Engineering Advisor in the Physics Department

Course	Course name	Grade	Credit		Take the following:		Grade	Credit
CHE51-103	General Chemistry I			_	MAT52-754	Differential Equations		
CHE51-101	Chemical Methods and Techniques Lab I				PHY53-104	Introduction to Engineering		
CHE51-203	General Chemistry II				PHY53-154	Fundamentals of Physics I		
CHE51-201	Chemical Methods and Techniques Lab II				PHY53-164	Fundamentals of Physics II		
					PHY53-214	Modern Physics		
Take one of t	the following:				PHY53-334	Classical Mechanics I		
MAT52-154	Calculus I				PHY53-434	Statics		
MAT52-164	Applied Multivariable Calculus I				PHY53-872	Capstone Course		
MAT52-254	Calculus II Applied Multivariable Calculus II				MAT52-674 PHY53-324	-Engineering Elective from the following:  Linear Algebra  Electromagnetism I		
				F	PHY53-404	Electronics		-
	the following:				PHY53-463	Dynamics		
	Calculus III  Applied Multivariable Calculus III				PHY53-454 PHY53-473	Math Methods in Physical Science II Thermodynamics		
						litional pre-approved, upper level engineering coun edited engineering school (at least 6 credits):	rses transferi	ed from

## **General Education Requirements**

At least 30 total credits required; minimum 3 credits per requirement.

<b>General Education - Part I</b>	General Education - Part II: Exploration & Breadth (6 total courses)					
Take one of the following first semester seminars:	PHY53-XXX courses cannot be used to satisfy Exploration & Breadth requirements.					
UST05-014 First Year Seminar						
UST05-214 Advanced Entry Seminar	Select one course from each of the four following areas:					
	Humanities:					
Foreign Language (three semesters of the same language)						
Poleigh Language (three semesters of the same language)						
	Sciences:					
	Sciences:					
Social Justice Course (may double count with any requirement):	Fine Arts:					
Two Fitness/Recreational Activity courses (must be different topics):	*Public Speaking, College Writing and Creative Writing courses may not count in E&B.					
<u>Univer</u>	rsity Graduation Requirements:					
Minimum of 127 credits:	Minor (optional):					
Cumulative GPA > 2.0	Minimum 18 credits					
GPA > 2.0 for Major and/or Areas of Concentration	Minimum of 12 credits taken at Southwestern					
All grades C- or higher in major/minor/core?	Minimum 2.0 minor courses CGPA					
At least 64 credits completed at Southwestern						
No more than 56 credits of any 5 digit prefix	Other:					
Major credits completed (min 30 required)	Degree Audit Completed (Due one year before grad date)					
60% of Major courses completed at Southwestern (35cr)	Grad Application Submitted (Due start of final semester)					
Gen Ed has minimum of 30 credits	Approved to be part time in last semester?					