## **Bachelor of Arts Applied Physics (2021-2023)**

## Student name:

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

## **Major Courses**

17 Courses; 35 credits must be completed at SU Must earn a C- or better in all major courses.

Course	Course name	Grade	Credit
CHE51-103/101	General Chemistry I/Chemical Methods & Techniques Lab I		
CHE51-203/201	General Chemistry II/Chemical Methods & Techniques Lab II		
MAT52-164	Modern Calculus I		
MAT52-264	Modern Calculus II		
MAT52-364	Modern Calculus III		
MAT52-754	Differential Equations		
PHY53-104	Introduction to Engineering		
PHY53-154	Fundamentals of Physics I		
PHY53-164	Fundamentals of Physics II		
PHY53-214	Modern Physics		
PHY53-334	Classical Mechanics I		
PHY53-434	Statics		
PHY53-872	Capstone Course		
Select one Pre-Engi	neering Elective from the list below:		
MATEO 074	Linear Alaska		
MAT52-674 PHY53-324	Linear Algebra Electromagnetism I		
PHY53-364	Fundamentals of Materials Science & Engineering		
PHY53-404	Electronics		
PHY53-463	Dynamics		
PHY53-454	Math Methods in Physical Science		
PHY53-473	Thermodynamics		
Select two additiona	Il pre-approved, upper level engineering courses transferred from an ABET accredited engineerin	g school (at least 6 cr	edits):
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Total number of credits counting in the major (minimum of 30 credits)

General Education Requirements		Grade	Credit
Part I	Circh Van and Advanced Cata Coming		
UST05-014/214	First Year or Advanced Entry Seminar		
	Semester #1 of Foreign Language:		
	Semester #2 of Foreign Language:		
	Semester #3 of Foreign Language:		
	Social Justice course:		
	Fitness/Recreational Activity course #1:		
	Fitness/Recreational Activity course #2:		
	(must be different from FRA topic #1)		

Part II Exploration and Breadth - 6 courses				
to Physics which is used to satisfy a major	atisfy E&B requirements. Additionally, any other course contributing r requirement cannot be used in the E&B section. tive Writing courses cannot count in E&B.	Grade	Credit	
Take one Human	iities course:			
Take one Natural	Science course:			
Take one Social	Science course:			
Take one Fine Ar	ts course:			
	e four areas listed above. Neither course may come from the areas above. EX: If you took PSY33-104 Principles of Psychology as a r PSY course in the below section.	Grade	Credit	
Course #2:				
University electives	e Gen Ed section (30 credit minimum required):	Grade	Credit	
Total number of university electives/minor	credits:			
Total number of credits from a minor (use *Minors are optional.	minor template to determine correct credit count). Enter credit amount here:			
Total number of earned credits counting in	n major, general education and university elective/minor areas:			
University Graduation Requ Students must earn a minimum of 127 ear Cumulative GPA must be greater than a 2 Major/Area of Concentration must have a	rned credits to earn a Bachelor's degree; a minimum of 157 credits is required 2.0.	for dual degrees.		

All grades in a major/minor/core/required supporting courses/certification areas must be a C- or higher . Some majors/minors require higher grades.

At least 64 credits must be completed at Southwestern.

No more than 56 credits may be earned from any 5 digit prefix (except Art, Education and Theatre majors). See catalog for full rules.

60% of Major courses must be completed at Southwestern.

Majors must have a minimum of 30 credits.

General Education area must have a minimum of 30 credits.

No transfer credits taken outside of SU in final 32 credit hours without approval from the Registrar's Office (except for an approved Study Abroad program).

A limit of 1 FRA may be taken as a university elective and counted towards graduation requirements. Any additional FRA's, taken as a university elective, will be deducted from total earned credit.