

Pre-Engineering Associate in Science

Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.



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Associate Professor

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Program Objective

The objective of the Pre-Engineering Associate in Science is to prepare students for transfer to a bachelor's degree granting institution to major in engineering.

Requirements for Graduation

1. Sixty-three designated semester credit hours.
2. Grade of "C" or better required in all Major Field Requirement courses.
3. Grade Point Average of 2.0 or better.
4. Fifteen semester credit hours in attendance at SSC.
5. Completion of Graduate Exit Survey.

Please Note: Consult with advisor for specific transfer requirements. General Education and Major Field requirements vary between universities.

Transfer Note: A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** will satisfy all freshman and sophomore general education requirements at the four-year university.

General Education Requirements 29

GOV 1113	American National Government	3
HIST 1483	American History to 1877 OR	
HIST 1493	American History since 1877	3
ENG 1113	Composition I	3
ENG 1213	Composition II	3
HUM	Any class designated as Humanities	6
MATH	<i>met by program</i>	
SCIENCE	One Life Science with lab	4
	<i>Physical Science met by program*</i>	
HPER 1012	Wellness and Human Development OR	
	Two HPER Activity Courses	2
STSC 1002	Learning Strategies	2
ELECTIVE	Select from Fine Arts, Psychology, and Social Sciences	3

Major Field Requirements 29

ENGR 1113	Introduction to Engineering (FO)	
MATH 1613	Plane Trigonometry	
MATH 2215	Calculus and Analytic Geometry I (SO)	
MATH 2424	Calculus and Analytic Geometry II (FO)	
MATH 2434	Calculus and Analytic Geometry III ((SO)	
PHYS 2114	General Physics I (FO)	
PHYS 2211	Calculus Based Physics I (FO)	
PHYS 2224	General Physics II (SO)	
PHYS 2231	Calculus Based Physics II (SO)	

Major Field Electives and Support..... 5

Select from the following:

CHEM 1315	General Chemistry I	
CS 2013	Programming in C++ (FO)	
MATH 1513	Pre-Calculus for Eng-Phys-CS	
MATH 2533	Differential Equations (SO)	

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE 63

FO=FALL ONLY FOO=FALL ODD YRS ONLY FEO=FALL EVEN YRS ONLY

SO=SPRING ONLY SOO=SPRING ODD YRS ONLY SEO=SPRING EVEN YRS ONLY



Pre-Engineering - Associate in Science

Degree Requirements Checklist 2025-27

A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** will satisfy all freshman and sophomore general education requirements at the four-year university.

6 hrs.	GENERAL EDUCATION REQUIREMENTS		2 hrs.	Health, Physical Education and Recreation	
	Social Sciences			□ HPER 1012 Wellness and Human Development OR Two HPER Activity Courses	
	□ GOV 1113 American National Government □ HIST 1483 American History Survey to 1877 OR HIST 1493 American History Survey since 1877				
6 hrs.	Language Arts		2 hrs.	Student Success	
□ ENG 1113 Composition I □ ENG 1213 Composition II		Required during first semester			
		□ STSC 1002 Learning Strategies			
6 hrs.	Humanities		3 hrs.	Fine Arts, Psychology, or Social Science Elective	
	Select two of the following:			Select one of the following:	
	□ ART/HUM 1153 Art History I (FO) □ ART/HUM 1163 Art History II (SO) □ ART/HUM 1203 Art Appreciation □ ART 2323 Global Studies in Art (TBD Summer) □ ENG/HUM 2033 Survey of Native American Literature (SEO) □ ENG 2403 Global Studies in Language Arts and Humanities (TBD Summer) □ ENG/HUM 2413 Introduction to Literature (FO) □ ENG/HUM 2433 World Literature I (SO) □ ENG/HUM 2443 Introduction to World Mythology (FOO) □ ENG/HUM 2543 British Literature I (FEO) □ ENG/HUM 2653 British Literature II (FOO) □ ENG/HUM 2753 American Literature I (SEO) □ ENG/HUM 2883 American Literature II (SOO) □ HIST/HUM 2223 Early Western Civilization to 1660 □ HIST/HUM 2233 Modern Western Civilization since 1660 □ HUM 1103 Life of Jesus (SO) □ HUM 1113 Old Testament (SO) □ HUM 1143 New Testament (FO) □ HUM 2123 Multiculturalism through Film □ HUM 2153 Crime, Delinquency and Social Science Issues through Film (SO) □ HUM 2173 Introduction to Film & TV (SO) □ HUM 2323 Social Science Issues as Perceived through Movies □ HUM 2333 Leadership Development through the Classics □ HUM 2343 Global Studies in Humanities □ MUS/HUM 1213 Music Appreciation I □ MUS/HUM 1223 Music Appreciation II □ PHIL 1113 Philosophy (FO) □ SOC 2433 Global Studies in Culture and Diversity (TBD Summer) □ SPCH/HUM 1523 Introduction to Theatre (FO)			□ ANTH 1113 General Anthropology □ ART 1103 Fundamentals of Art I (FO) □ ART 1123 Drawing I (SO) □ ART 2123 Ceramics I (FO) □ ART 2213 Watercolor I (SO) □ ART 2233 Painting I (SO) □ ART 2713 Printmaking (FO) □ BA 2113 Macroeconomics □ BA 2213 Microeconomics □ CJ 1113 Introduction to Criminology (FO) □ ENG 1313 Technical Writing (SOO) □ ENG 2103 Fiction Writing (FOO) □ ENG 2113 Creative Writing (FEO) □ ENG 2123 Poetry Writing (SOO) □ ENG 2663 Creative Nonfiction Writing (SEO) □ GEOG 1123 World Regional Geography □ NAS 1713 Seminole/Creek Language I □ PSY 1113 General Psychology □ SOC 1113 Introduction to Sociology	
4 hrs.	Mathematics		29 hrs.	TOTAL REQUIRED GENERAL EDUCATION HOURS	
	✓ met by program (MATH 1513 recommended)				
	Life Science			MAJOR FIELD REQUIREMENTS	
4 hrs.	Select one of the following:		29 hrs.	□ ENGR 1113 Introduction to Engineering (FO) □ MATH 1613 Trigonometry □ MATH 2215 Calculus and Analytic Geometry I (SO) □ MATH 2424 Calculus and Analytic Geometry II (FO) □ MATH 2434 Calculus and Analytic Geometry III (SO) □ PHYS 2114 General Physics I (FO) □ PHYS 2211 Calculus Based Physics I (FO) □ PHYS 2224 General Physics II (SO) □ PHYS 2231 Calculus Based Physics II (SO)	
	□ AGRI 1104 Introduction to Animal Science (FO) □ AGRI 1204 Introduction to Plant and Soil Science (SO) □ BIOL 1114 General Biology □ BIOL 1214 Principles of Biology □ BIOL 1224 General Botany (SO) □ BIOL 1234 General Zoology (SO)				
	Physical Science			MAJOR FIELD ELECTIVES AND SUPPORT	
4 hrs.	✓ met by program		5 hrs.	Select from the following:	
				□ CHEM 1315 General Chemistry I □ MATH 1513 Pre-Calculus for Eng-Phys-CS □ CS 2013 Programming in C++ (FO) □ MATH 2533 Differential Equations	
				TOTAL REQUIRED MAJOR FIELD HOURS	
4 hrs.			34 hrs.	MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE	
		63 hrs.			
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revised 01/2024

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Semester by Semester Suggested Degree Plan*

Pre-Engineering - Associate in Science

COURSE NUMBER- COURSE DESCRIPTION	HOURS
FRESHMAN YEAR, FALL	
<input type="checkbox"/> STSC 1002 LEARNING STRATEGIES	2
<input type="checkbox"/> ENG 1113 COMPOSITION I	3
<input type="checkbox"/> ENGR 1113 INTRODUCTION TO ENGINEERING (FO)	3
<input type="checkbox"/> HIST 1483/1493 AMERICAN HISTORY SURVEY TO 1877 OR SINCE 1877	3
<input type="checkbox"/> MAJOR FIELD ELECTIVE (MATH 1513 SUGGESTED)	3
<input type="checkbox"/> HUM	3
TOTAL:	17
FRESHMAN YEAR, SPRING	
<input type="checkbox"/> ENG 1213 COMPOSITION II	3
<input type="checkbox"/> MATH 1613	3
<input type="checkbox"/> MATH 2215 CALCULUS AND ANALYTIC GEOMETRY I (SO)	5
<input type="checkbox"/> GOV 1113 AMERICAN NATIONAL GOVERNMENT	3
<input type="checkbox"/> LIFE SCIENCE**	4
TOTAL:	18
SOPHOMORE YEAR, FALL	
<input type="checkbox"/> HUM	3
<input type="checkbox"/> PHYS 2114 GENERAL PHYSICS I (FO)	4
<input type="checkbox"/> PHYS 2211 CALCULUS BASED PHYSICS (FO)	1
<input type="checkbox"/> MATH 2424 CALCULUS AND ANALYTIC GEOMETRY II (FO)	4
<input type="checkbox"/> MAJOR FIELD ELECTIVE	2
TOTAL:	14
SOPHOMORE YEAR, SPRING	
<input type="checkbox"/> PHYS 2224 GENERAL PHYSICS II (SO)	4
<input type="checkbox"/> PHYS 2231 CALCULUS BASED PHYSICS II (SO)	1
<input type="checkbox"/> MATH 2434 CALCULUS AND ANALYTIC GEOMETRY III (SO)	4
<input type="checkbox"/> ELECTIVE***	3
<input type="checkbox"/> HPER 1012 WELLNESS AND HUMAN DEVELOPMENT	2
TOTAL:	14
TOTAL HOURS:	63

*THIS IS A GUIDE TO HELP STUDENTS WITH PLANNING. A STUDY OF THE COURSE SCHEDULE AND A VISIT WITH YOUR ACADEMIC ADVISOR IS CRUCIAL FOR SUCCESS IN COMPLETING YOUR DEGREE.

**LIFE SCIENCES:

AGRI 1104, AGRI 1204, BIOL 1114, BIOL 1214, BIOL 1224, BIOL 1234

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