Pre-Engineering Associate in Science

Degree Program Mentor

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



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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.

GOV 1113 American National Government3	
HIST 1483 American History to 1877 or	
HIST 1493 American History since 18773	
ENG 1113 Composition I3	
ENG 1213 Composition II3	
HUM Any class designated as Humanities6	
MATH met by program	
SCIENCE One Life Science with lab4	
Physical Science met by program*	
HPER 1012 Wellness and Human Development or	
Two HPER Activity Courses2	
STSC 1002 Learning Strategies	
ELECTIVE Select from Psychology, Social	
Sciences, and Fine Arts3	
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 2024-25

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.

	2024-25		the roar year aniversity.
	GENERAL EDUCATION REQUIREMENTS	3 hrs.	Psychology, Soc. Science, or Fine Arts Elective
			Select one of the following:
6 hrs.	Social Sciences		□ ANTH 1113 General Anthropology
	☐ GOV 1113 American National Government		□ ART 1103 Fundamentals of Art I (FO)
	☐ HIST 1483 American History Survey to 1877 <u>or</u>		□ ART 1123 Drawing I (SO)
	HIST 1493 American History Survey since 1877		□ ART 2123 Ceramics I (FO)
6 hrs.	Language Arts		□ ART 2213 Watercolor I (SO)
	☐ ENG 1113 Composition I		□ BA 2113 Macroeconomics
	☐ ENG 1213 Composition II		□ BA 2213 Microeconomics
6 hrs.	Humanities		□ CJ 1113 Introduction to Criminology
	Select two of the following:		□ ENG 1313 Technical Writing (SOO)
	□ HUM		□ ENG 2103 Fiction Writing (FO)
	□ HUM		□ ENG 2113 Creative Writing (FO)
	any course with HUM prefix (list above) <u>or</u>		□ ENG 2123 Introduction to Poetry (SO)
	□ ART/HUM 1153 Art History I (FO)		 □ GEOG 1123 World Regional Geography □ NAS 1713 Seminole/Creek Language I
	□ ART/HUM 1163 Art History II (SO)		□ PSY 1113 General Psychology
	□ ART/HUM 1203 Art Appreciation		SOC 1113 Introduction to Sociology
	□ ART 2323 Global Studies in Art (TBD Summer)		a see 1115 introduction to sociology
	□ ENG/HUM 2033 Survey of Native American Literature	29 hrs.	
	(SEO) □ ENG 2043 Global Studies in Language Arts		TOTAL REQUIRED GENERAL EDUCATION HOURS
	and Humanities (TBD Summer)		TOTAL REGUINES GENERALE ESOCIATION TOOMS
	□ ENG/HUM 2413 Introduction to Literature (FO)	29 hrs.	
	□ ENG/HUM 2433 World Literature I (SO)		MAJOR FIELD REQUIREMENTS
	□ ENG/HUM 2543 British Literature I (FEO)		
	□ ENG/HUM 2653 British Literature II (FOO)		□ ENGR 1113 Introduction to Engineering (FO)
	□ ENG/HUM 2753 American Literature I (SEO)		□ MATH 1613 Trigonometry
	□ ENG/HUM 2883 American Literature II (SOO)		□ MATH 2215 Calculus and Analytic Geometry I (SO)
	□ HIST/HUM 2223 Early Western Civilization to 1660		□ MATH 2424 Calculus and Analytic Geometry II (FO)
	□ HIST/HUM 2233 Modern Western Civilization since 1660		□ MATH 2434 Calculus and Analytic Geometry III (SO)
	□ MUS/HUM 1213 Music Appreciation I		□ PHYS 2114 General Physics I (FO)
	□ MUS/HUM 1223 Music Appreciation II		□ PHYS 2211 Calculus Based Physics I (FO) □ PHYS 2224 General Physics II (SO)
	□ PHIL 1113 Introduction to Philosophy (FO)		
	☐ SOC 2433 Global Studies in Culture and Diversity (TBD Summer)		□ PHYS 2231 Calculus Based Physics II (SO)
	□ SPCH/HUM 1523 Introduction to Theatre (FO)	5 hrs.	MALOR FIELD FLECTIVES AND SUPPORT
	Mathematics		MAJOR FIELD ELECTIVES AND SUPPORT
	✓ met by program (MATH 1513 recommended)		Select from the following:
4 hrs.	Life Science		□ CHEM 1315 General Chemistry I
	Select one of the following:		□ MATH 1513 Pre-Calculus for Eng-Phys-CS
	□ BIOL 1114 General Biology		CS 2013 Programming in C++ (FO)
	□ BIOL 1214 General Biology □ BIOL 1214 Principles of Biology		☐ MATH 2533 Differential Equations
	□ BIOL 1214 Filliciples of Biology □ BIOL 1224 General Botany	34 hrs.	
	□ BIOL 1234 General Zoology		TOTAL REQUIRED MAJOR FIELD HOURS
	Physical Science	63 hrs.	
2 hrs.	✓ met by program		MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE
۷ ۱۱۱۵،	Health, Physical Education and Recreation		
	□ HPER 1012 Wellness and Human Development <u>or</u>		revised 01/2024
2 hrs.	Two HPER Activity Courses		
۱۱۱۵۰	Student Success		
	Required during first semester		
	□ STSC 1002 Learning Strategies		
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Semester by Semester Suggested Degree Plan* Pre-Engineering - Associate in Science

Cours	SE NUMBER- COURSE DESCRIPTION		Hours
FRESH	IMAN YEAR, FALL		
	STSC 1002 LEARNING STRATEGIES		2
	ENG 1113 COMPOSITION I		3
	ENGR 1113 INTRODUCTION TO ENGINEERING (FO)		3
	HIST 1483/1493 AMERICAN HISTORY SURVEY TO 1877 OR SINCE 1877		3
	MAJOR FIELD ELECTIVE (MATH 1513 SUGGESTED)		3
	HUM		3
		TOTAL:	17
FRESH	IMAN YEAR, SPRING		
	ENG 1213 COMPOSITION II		3
	MATH 1613		3
	MATH 2215 CALCULUS AND ANALYTIC GEOMETRY I (SO)		5
	GOV 1113 AMERICAN NATIONAL GOVERNMENT		3
	LIFE SCIENCE**		4
		TOTAL:	18
SOPHO	OMORE YEAR, FALL		
	HUM		3
	PHYS 2114 GENERAL PHYSICS I (FO)		4
	PHYS 2211 CALCULUS BASED PHYSICS (FO)		1
	MATH 2424 CALCULUS AND ANALYTIC GEOMETRY II (FO)		4
	MAJOR FIELD ELECTIVE		2
		TOTAL:	14
SOPHO	OMORE YEAR, SPRING		
	PHYS 2224 GENERAL PHYSICS II (SO)		4
	PHYS 2231 CALCULUS BASED PHYSICS II (SO)		1
	MATH 2434 CALCULUS AND ANALYTIC GEOMETRY III (SO)		4
	ELECTIVE***		3
	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 SCIENCE = AGRI 1104, 1204, BIOL 1114, 1214, 1224, OR 1234

^{***}ELECTIVE = SELECT FROM PSYCHOLOGY, SOCIAL SCIENCES, OR FINE ARTS