ASSOCIATE OF SCIENCE DEGREE

Pre-Engineering

The Associate in Science (A.S.) Pre-Engineering degree is a cooperative program between Crowder College and the School of Engineering at the Missouri University of Science & Technology. In addition, similar cooperative programs have been developed with the University of Missouri - Columbia and the University of Arkansas. Although not specifically designed for transfer to other engineering schools, the A.S. program does incorporate the essential course work for the first two years of study in any engineering field at other universities. Some of the course requirements vary with the engineering departments cooperating in this program. Those requirements are marked with a (†). In such cases, students will need to consult with the adviser as to the appropriate class for a particular engineering major.

Crowder College and the School of Engineering at Missouri University of Science & Technology have instituted an advisement and counseling program for pre-engineering majors. Students enrolling at Crowder can be simultaneously enrolled at S&T's Transfer Assistance Program. This allows for a smoother transition between the two institutions. Students are also allowed to participate in special pre-registration programs on the S&T campus.

Crowder College offers two degree programs in pre-engineering. The A.S. Pre-Engineering degree is designed for those students who plan to enter into traditional engineering fields such as Mechanical, Electrical, Civil, etc. The A.S. Pre-Engineering Alternative Energy Option degree is designed for those students who wish to pursue a career in alternative energies. Grades below a "C" are not allowed.

Program of Study

Orientation	n		1 hour
COLL	101		
Communic	cations †		6 hours
	101* (3)		
	102* (3) OR	ENGL	104* (3)
SPCH	101* (3)		
Humanities, Social and Behavioral Sci			12 hours
	ri Constitution (3 hours)		nics (3 hours):
PLSC	103*, 104*	ECON	201*, 202*
HIST	106*		
Humanities (3 hours)		Additional (3 hours) or	
ART	101		r humanities
ASL	101, 102*		201*, 202*
	109, 120, 125	GEOG	
HIST	101	HIST	- 1 - 1 - 1 -
MUSC	101	PHIL	110*, 121
PHIL	,,	PLSC	- 1 -
SPAN	101	PSYC	101
SWK	219	SOC	101
TA	205		
Mathemati			18 hours
MATH		MATH	
MATH		MATH	210*
	201*		
Science			18 hours
PHYS	190*	PHYS	250*
PHYS	210*	CHEM	111
Computer Science			4 hours
COMP	111*		
Technical	Electives		6 hours
CHEM	112*	DRFT	101
CHEM	201*	DRFT	115
Alternati	ve Energy Courses		

Suggested Plan of Study

Fall Semester	Hours
CHEM 111 General Chemistry I	5
COLL 101 College Orientation	1
COMP 111 Introduction to Programming	4
ENGL 101 English Composition I	3
MATH 150 Calculus I, Part 1	2
Total	15
Spring Somoctor	Hours
Spring Semester ECON 201 – OR – ECON 202	
MATH 160 Calculus I, Part 2	3 3
PHYS 190 General Physics I	5
Approved Communications Course	5 3
Approved Humanities Course	3 3
Approved Humanities Course Total	17
TOLA	17
SECOND YEAR	
JECOND TEAR	
Fall Semester	Hours
Fall Semester	Hours 3
Fall Semester	
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II	3 5
Fall SemesterHIST106US History – OR – PLSC 103MATH201Calculus IIPHYS210General Physics II	3 5 5
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II	3 5 5
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course	3 5 5 8 3
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course	3 5 5 8 3
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course Total	3 5 5 3 16
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course Total Spring Semester Total	3 5 5 3 16 <i>Hours</i> 5 3
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course Total Spring Semester MATH 202 MATH 202 Calculus III	3 5 5 3 16 <i>Hours</i> 5
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course Total Spring Semester MATH 202 MATH 202 Calculus III MATH 2010 Differential Equations	3 5 5 3 16 <i>Hours</i> 5 3 3 6
Fall Semester HIST 106 US History – OR – PLSC 103 MATH 201 Calculus II PHYS 210 General Physics II Approved Soc & Behavioral Science Course Total Spring Semester MATH 202 MATH 202 Calculus III MATH 210 Differential Equations PHYS 250 Statics	3 5 5 3 16 <i>Hours</i> 5 3 3

*Prerequisite requirement

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.