

Associate in Engineering Science Degree

Communications: 6	Engineering Specialty Courses: 21-33
Science: 8	Social Sciences: 3-6
Mathematics: 13	Humanities: 3-6

Total Credit Hours 60-66

PLEASE NOTE THAT COLLEGE ALGEBRA, PRE-CALCULUS, AND TRIGONOMETRY
DO NOT COUNT TOWARDS THE MATH REQUIREMENT.

*First time degree seeking students must complete INST101, Success in College,
as a requirement for graduation.*

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
First Semester			
ENGL 101 Rhetoric and Composition I	3		
MATH 120 Calculus & Analytic Geometry I	5		
CHEM 101 Chemistry I	4		
Humanities Elective (See List)*	3		
Social Science Elective (See List)*	3		
Total	18		
Second Semester			
ENGL 102 Rhetoric and Composition II	3		
MATH 130 Calculus & Analytic Geometry II	5		
CHEM 102 Chemistry II	4		
PHYS 106 Physics - Mechanics	4		
Total	16		
Third Semester			
MATH 140 Calculus & Analytic Geometry III	3		
PHYS 107 Physics - Heat/Magnetism	4		
MATH 110 Intro. Computer Science	3		
Engineering Specialty Course (See List)	3-5		
Total	13-15		
Fourth Semester			
MATH 211 Differential Equations	3		
PHYS 108 Physics - Wave Motion, Optics, & Modern Physics	4		
Engineering Specialty Course or Social Science/Humanities Elective (See Lists)	3-5		
Engineering Specialty Course or Social Science/ Humanities Elective (See Lists)	3-5		
Total	13-17		

* A Human Relations Course is required for graduation. A Non-Western Course is also recommended. See your counselor for a list of these courses.

ASSOCIATE ENGINEERING SCIENCE DEGREE

Engineering Specialty Courses	HOURS	F,S,I,SU	GRADE
1. Aeronautical, Manufacturing, Mechanical Engineering, & Engineering Mechanics			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
PHYS 235 Electrical Circuit Analysis	4		
2. Chemical Engineering			
CHEM 133 Organic Chemistry	5		
CHE 202 Organic Chemistry II (Coop. @ Parkland)	5		
3. Civil Engineering			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
4. Computer & Electrical Engineering			
PHYS 235 Electrical Circuit Analysis	4		
5. Industrial Engineering			
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
CECN 102 Microeconomics	3		
6. Material Sciences & Engineering			
PHYS 152 Applied Mechanics - Statics	3		
PHYS 235 Electrical Circuit Analysis	4		
7. Mining Engineering (Only Offered @ S.I.U.-Carbondale)			
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
8. Nuclear Engineering (Only Offered @ U. of I.-Urbana)			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
9. Agricultural Engineering (Only Offered @ U. of I.-Urbana)			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		