Associate in Engineering Science Degree

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

Total Credit Hours.....62-66

PLEASE NOTE THAT COLLEGE ALGEBRA, 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	62-67		

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

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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		
2. Chemical Engineering			
CHEM 133 Organic Chemistry	5		
CHEM 134 Organic Chemistry II	5		
3. Civil Engineering			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
4. Industrial Engineering			
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
CECN 102 Microeconomics	3		
5. Material Sciences & Engineering			
PHYS 152 Applied Mechanics - Statics	3		
6. Mining Engineering			
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
7. Nuclear Engineering			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
8. Agricultural Engineering			
DRAF 161 Engineering Graphics	3		
PHYS 152 Applied Mechanics - Statics	3		
PHYS 211 Applied Mechanics - Dynamics	3		
9. Computer Engineering			
CSCI 101 Introduction to Python	3		
CSCI 201 Advanced Python	3		
CSCI 103 Introduction to Java	3		
CSCI 200 Advanced Java	3		