ENGINEERING, ASSOCIATE OF SCIENCE IN ENGINEERING

NMC Code 736

NMC offers an intensive Associate of Science in Engineering transfer degree that is intended to prepare students for transfer to a four-year engineering program. The NMC engineering curriculum parallels engineering programs offered during the first two years at other colleges and universities. Traditionally, these first two years emphasize the tools and theories that provide background for all engineering fields. Students are required to meet with an advisor for completion of this degree.

Requirements

MAJOR REQUIREMENTS

Course	Title	Credits
Core General Education Requirements		**48**
Communications		
ENG 111	English Composition	4
ENG 112	English Composition	4
Humanities		
Any Group 1 class from: art, history, humanities, literature, music, philosophy or second year foreign language		3
Mathematics		
MTH 141	Calculus I	5
MTH 142	Calculus II	5
MTH 241	Calculus III	5
MTH 251	Differential Equations	4
Science		
CHM 150	General Chemistry I	4
CHM 150L	General Chemistry I Lab	
CHM 150R	General Chemistry I, Recitatn	
PHY 221	Problems & Princ.of Physics I	4
PHY 221L	Prob./Prin. of Physics I Lab	
PHY 221R	Prob.& Princ. of Physics I Rec	
PHY 222	Prob. & Princ. of Physics II	4
PHY 222L	Prob./ Prin. of Physics II Lab	
PHY 222R	Prob. & Princ. of Physics II R	
Social Science		
One Group 1 class from: anthropology, economics, geography, political science, psychology or sociology		3
Directed Electives		**25**
BIO 227	Human Anatomy & Physiology I	4
BIO 227L	Human Anatomy & Phys I Lab	
BIO 228	Human Anatomy & Physiology II	4
BIO 228L	Human Anatomy & Phys II Lab	
CHM 151	General Chemistry II	4
CHM 151L	General Chemistry II Lab	
CHM 151R	General Chemistry II Recitatn	
CHM 250	Organic Chemistry I	5
CHM 250L	Organic Chemistry I Lab	
CHM 251	Organic Chemistry II	5
CHM 251L	Organic Chemistry II Lab	
CIT 110	Programming Logic and Design	3
EGR 101	Introduction To Engineering	1
EGR 111	Introduction to Computer Science	3
EGR 113	Engineering Graphics I	3
EGR 131	Elementary Surveying	5
EGR 131L	Elementary Surveying Lab	
EGR 201	Statics	3
EGR 202	Mechanics of Materials	3
EGR 203	Dynamics	4
EGR 211	Electrical Circuits I	3
EGR 220	Engineering Practice I	2
EGR 221	Material Science	3
EGR 232	Introductory Thermodynamics	3
ENV 111	Physical Geology	4
ENV 111L	Physical Geology Lab	

Direct Electives will be determined by the type of engineering program the student is pursuing and the university for which they are transferring. See Program advisor for Institution / Program course information.