



## IE&M Approved Electives/Requirements

Computer Science Electives (3 credits)			
CSCI	122	Visual BASIC	3
ECE	173	Introduction to Computing	4
CSCI	159	Computer Science Problem Solving	3
CSCI	160	Computer Science I	4

Engineering Science Requirement (12 credits)			
CE	309	Fluid Mechanics	3
ME	223	Mechanics of Materials	3
ME	350	Thermodynamics/Heat Trsf	3
<b>Take 1 of the following 3 courses:</b>			
EE	206	Circuit Analysis I	4
ECE	275	Digital Systems I	4
ECE	301	Electrical Engineering I	3

Technical Electives (9 credits)					
Approved Courses			Credits	Pre-requisites	*Offered
IME	335	Welding Technology	3		s (even yrs)
IME	380	CAD.CAM for Manufacturing	3	ME 212	f
IME	411	Human Factors Engr	3	IME 311, IME 460	f (odd yrs)
IME	427	Packaging for Electronics	3	Jr standing	f (even yrs)
IME	430	Process Engineering	3	IME 330 & MATH 266	f
IME	431	Production Engineering	3	IME 330, co-requisite IME 430	s
IME	432	Composite Materials Mfg	3	IME 330, ME 331	See ME 474 below
IME	433	Additive Manufacturing	3	MATH 166, IME 330, co-req IME 430	s (odd yrs)
IME	435	Plastics & Polymer Processing	3	MATH 166 & MATH 266	f (even yrs)
IME	437	Methods for Precision Mfg	3	IME 430 ME 331	s (even yrs)
IME	451	Logistics Engr & Mgmt	3	IME 470, co-requisite IME 450	See AGECE 378 below
IME	453	Hospital Management Engineering	3		s (odd yrs)
IME	462	Total Quality in Indl Mgmt	3		f (odd yrs)
IME	463	Reliability Engineering	3	IME 460	f (even yrs)
IME	464	Reliability Analysis	3	IME 460, IME 463	s (even yrs)
CSCI	425	Machine Learning	3		f
AGECE	378	Intro to Transportation & Logistics	3	Econ 201	f
ME	474	Mechanics of Composite Material	3	IME 331	s
<b>Maximum of 1 of the following 5 courses may be counted as technical elective.</b>					
BUSN	340	International Business	3		
^	MGMT	320	Foundations of Mgmt	3	
^	MIS	320	Mngt Information Systems	3	
^	MRKT	320	Foundations Marketing	3	
^	BUSN	431	Business Law I	3	

Subst. for IME 465

Subst. for IME 451

Subst. for IME 432

^ 300-400 level BUSN courses require at least Junior standing and a minimum 2.50 cumulative GPA.

\* Tech elective course schedules may change based on faculty availability and course enrollment.

**Note:** Students may request approval for other 300-400 level engineering or related courses to be approved as technical electives. To request approval, a student should submit a memo to the IME dept indicating the course of interest and why the course should be approved. This memo will be reviewed by the IME department Chair and advisor for approval. Two of the three technical electives must be IME courses.