

Freshman Year

First Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status	Second Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status
Remedial						Remedial					
CHEM 210	3	Gen Chemistry	PRQ: MATH 110, or MATH 155, or MATH 229 or Placement; CHEM 110, or Placement or consent CRQ: CHEM 212.			COMS 100	3	Fund of Oral Comm.	None		
CHEM 212	1	Gen Chemistry Lab	CRQ: CHEM 210			ENGL 203 (≥C)	3	Rhetoric & Comp II	PRQ: ENGL 103 (≥C)		
ENGL 103 (≥C)	3	Rhetoric & Comp I	None			or ENGL 204 (≥C)	3	Rhetoric and Composition, Accelerated Researched Writing in the Domains	PRQ: Placement only through English Core Competency Examination or a score of 30 or higher on the ACT combined English/Writing Test.		
MATH 229 (≥C)	4	Calculus I	PRQ: MATH 155 (≥C) or Placement			MATH 230 (≥C)	4	Calculus II	PRQ: MATH 229 (≥C)		
UEET 101	1	Intro to Engineering	None			MEE 270	3	Engr Graphics	CRQ: MATH 155 or MATH 229		
GE:CCA	3					PHYS 253 (≥C)	4	Fund of Physics I (Lab Included)	CRQ: MATH 229		

Sophomore Year

First Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status	Second Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status
ECON 260 or ECON 261	3	Microeconomics or Macroeconomics	Sophomore Standing (Recommended)			CSCI 240	4	Computer Prog. In C++	PRQ: MATH 110 or 155 or 206 or 210 or 211 or 229; or consent		
ISYE 250	2	Int Lean System Eng (F)	PRQ: MATH 110 or consent			ELE 210 or	3	Engr Circuit Analysis I	PRQ: MATH 230(≥C) & PHYS 273(≥C)		
ISYE 350	3	Prin of Mfg Proc (F)	PRQ: CHEM 210, MATH 229 & PHYS 253			TECH 175/175A	4	Electronic Fundamentals	PRQ: MATH 155 (≥C), PHYS 150A or PHYS 210		
MATH 232	4	Calculus III	PRQ: MATH 230 (≥C)			ISYE 220	3	Eng. Economy (FS)	PRQ: MATH 210, 211 or 229		
PHYS 273	4	Fund of Physics II (Lab Included)	PRQ: PHYS 250A or PHYS 253 CRQ: Math 230			ISYE 335	3	Probability & Statistics for Eng. (FS)	PRQ: MATH 230		
						MATH 336	3	Ordinary Diff Equation	PRQ: MATH 230		

Junior Year

First Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status	Second Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status
ISYE 370	3	Op Res: Det Models (F)	PRQ: MATH 232			ISYE 310	3	Wrk Meas & Design (S)	CRQ: ISYE 335 or STAT 350 or UBUS 223		
ISYE 410	3	Human Factor Engr (F)	PRQ: PHYS 253 & ISYE 335 or STAT 350 or UBUS 223			ISYE 371	3	Op Res: Prob Mod (S)	PRQ: ISYE 335		
MEE 209 or	4	Engr Mech Stats & Dyn (F)	PRQ: MATH 230 & PHYS 253			ISYE 430	3	Quality Control (S)	PRQ: ISYE 335 or STAT 350 or UBUS 223		
MEE 210/*211	6	Engr Mechanics I / II	PRQ: MATH 229≥C, PHYS 253 ≥C * PRQ: MATH 230≥C and MEE 210			ISYE 435	3	Exp. Design for Eng. (S)	PRQ: ISYE 335		
PSYC 102	3	Intro to Psychology	None			TECH ELEC II	3	Select from Group 2	See back side of this document		
TECH ELEC I	3	Select from Group 1	See back side of this document								

Senior Year

First Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status	Second Semester	Cr	Course Title	Prerequisites/Corequisites	Sem/Yr	Status
ISYE 431	3	Reliability Eng (3)	ISYE 335 or STAT 350			ISYE 450	3	Lean Mfg Systems (S)	PRQ: ISYE 250 or consent		
ISYE 440	3	Prod Plan & Control (F)	PRQ: ISYE 335 or UBUS 223 or STAT 350 CRQ: ISYE 370 or OMIS 327			ISYE 453	3	Integra Prod/Proc Des (S)	CRQ: ISYE 350 and MEE 270		
ISYE 460	3	Fac Plan & Design (F)	CRQ: ISYE 370 and ISYE 350			ISYE 496	3	Manuf Sys Design Prj	See catalog		
ISYE 480	3	Sim Mod & Analy (F)	PRQ: ISYE 335 or STAT 350 or UBUS 223, & CSCI 240 & ISYE 371; or Consent			TECH ELEC III	3	Select from Group 3	See back side of this document		
ISYE 492	1	Senior Design Proposal	See catalog			GE: CCA	3				

ELECTIVES

Group 1 - Select One		
Course Code	Course Title	Prerequisites
ISYE 439	Six Sigma (3)	ISYE 335 or STAT 350 or UBUS 223
MEE 422	Design of Robot Manipulators (3)	MEE 322
MEE 425	Design of Mobile Robots (3)	MEE 211 or TECH 375 or Consent
Group 2 - Select One		
Course Code	Course Title	Prerequisites
ISYE 455	Manufact Metrology (3)	ISYE 335 or STAT 350
TECH 365	Metrology (3)	Math 155 (≥C) & TECH 211
Group 3 - Select One		
Course Code	Course Title	Prerequisites
MEE 430	Computer-Aided Design and Manufacturing (3)	PRQ: MEE 212 and MEE 270. CRQ: MEE 331
or TECH 311	Computer-Aided Modeling (3)	TECH 211 (≥C)
or TECH 342	Manufacturing Component Design (3)	MATH 230, TECH 211, TECH 212 & TECH 369
or TECH 414	Computer-Aided Machine Design (3)	PHYS 150A, TECH 265 & TECH 211
TECH 417	Design for Energy Efficiency and Green Materials (3)	MATH 155 (≥C) , PHYS 150 and PHYS 151, or PHYS 210
or TECH 445	Industrial Energy Utilization and Environmental Impacts (3)	MATH 155 (≥C) , and CHEM 110 or CHEM 210