INDUSTRIAL AND ENGINEERING TECHNOLOGY PREREQUISITES AND ROTATION
EFFECTIVE FALL 2009

COURSE (prev)	COURSE TITLE	PREREQUISITE/CO-REQUISITE	SEMESTER*
CM 100 (TG 100)	Introduction to Architectural Drafting	None	F
CM 126 (TG 126)	Computer Aided Architectural Drafting	None	F,S
CM 226 (TG 320)	Residential Architectural Drafting and Design	CM 126 (formerly TG126)	F,S
CM 243	Construction Methods and Materials	None	F, S
CM 310	Construction Building Codes	CM 126 and CM 243	F
CM 315	Contruction Contracts and Legal Issues	CM 126 and CM 310	F
CM 320	Construction Cost Estimating	CM 243 and MA 134	F,S
CM 322 (TG 322)	Commercial Architectural Drafting and Design	CM 226 (formerly TG 320)	S
CM 325	Building Mechanical and Electrical Systems	CM 226; CM 243; CM 310	F
CM 330	Construction Planning and Scheduling	CM 243 and CM 320	F
CM 343	Construction Surveying and Testing	CM 126; CM 243; MA 133	S
CM 410	Construction Project Administration	CM 315; CM 320; CM 330	S
CM 510	Building Info. Modeling	CM 226	S
ET 160	Basic Electricity and Electronics	MA 134 or MA 135	F
ET 162	DC Principles and Circuits	MA 134 or MA 135	S
ET 164	AC Principles and Circuits	ET 162; MA 144 or MA 145 (Co-Req)	F
ET 194	Fundamentals of Programmable Logic Controllers	ET 160 or ET 162	S
ET 245	Logic Circuits	ET 160 or ET 162	F
ET 260	Electronic Circuit Design and Analysis	ET 164	S (OD) - 2011
ET 264	Industrial Electronics Note: ET 264 will substitute for ET 262	ET 260	F (OD) - 2011
ET 365	Industrial Electrical Power	ET 164 and PH 121	S (EV) - 2010
ET 366	Microcontrollers	ET 245 or EP 305; MN 260	S
ET 367	Motor Control and Drive Systems	ET 365	F (EV) - 2010
ET 468	Industrial Controls	ET 264; ET 365	S (EV) - 2012
ET 470	Energy Management	ET 367; ET 468; TN 275	S (OD) - 2011
FM 504	Facilities Management	None	S
FM 554	Facilities Operation & Supervision	CM 226 or Consent of Instructor	S
GM 180 (TG 180)	Introduction to Industrial Graphics	None	F,S
GM 200 (TG 300)	Vector and Bitmapped Graphics for Industry	None	F,S
GM 282 (TG 482)	Electronic Publishing and Print Processes	GM 200	F
GM 284 (TG 284)	Photography Fundamentals (course meets Artistic Expression)	None	F,S
GM 285	Commercial Photographic Lighting	GM 284	S
GM 286	Commercial Studio Photography	GM 285	F
GM 320 (TG 382)	Electronic and Internet Publishing	GM 282; TN 275 / (or TN 255)	S
GM 326 (TG 326)	Advanced Internet Production	GM 320	F
GM 380 (TG 380)	3D Product Modeling & Animation	GM 200	S
GM 384 (TG 384)	Commercial Photography	GM 286	S
GM 385 (TG 385)	Non-Linear Video Editing	GM 200	F
GM 386 (TG 386)	Interactive Multimedia and Animation	GM 200; MA 133; MN 260	F
GM 480 (TG 480)	Advanced Industrial Animation	GM 380 with a grade of "C" or better.	F
GM 490 (TG 490)	Advanced Graphics Projects	Senior Standing; GM 326; GM 384; GM 480	S
IE 192/592	Selection and Organization of Subject Matter	IE 592 requires the completion of 45 credit hours	S
IE 193/593	Principles and Practices of Technical Subjects	IE 593 requires the completion of 45 credit hours	F
IE 301-303	Independent Study	None	F,S
IE 401	Technology Education Management	Acceptance to Teacher Education	F-alternate yrs
IM 102	Technical Communication	None	F,S
IM 301 (IM 211)	Industrial Safety Supervision	IM 102	F,S
IM 311	Statistical Process Control	MA 134 or MA 135 with a grade of "C" or better	F,S
IM 313	Facilities Planning	IM 315 or MN 204	F
IM 315	Work Measurement	IM 102	F
IM 317-319	Cooperative Industrial Internship	Junior Stnding	F,S,SU
IM 411	Total Quality Assurance	IM 102; IM 311	F
IM 417	Manufacturing Resource Analysis	IM 311; MA 139 or MA 140	S
IM 419	Industrial Supervision	IM 301 (formerly IM 211)	F,S
IM 506	Projects in Industrial and Engineering Technology	None	F,S
MN 120 (TG 120)	Fundamentals of Engineering Design Processes	None	F
MN 170	Engineering Materials and Testing	CH 181; MA 134 or MA 135	S
MN 203	Industrial Materials & Processes I	MN 170; MN 120	F
MN 204	Industrial Materials & Processes II	MN 203	S
MN 219	Statics and Strengths of Materials	MA 139 or MA 140; MN 170; PH 120	S
MN 220	Engineering Economic Analysis (course meets Economic Systems)	MA 134 or MA 135 with a grade of "C" or better	F,S
MN 221 (TG 220)	Solid Modeling & Rapid Prototyping	MN 120; MA 134 or MA 135	S
MN 260	Technical Computer Programming Applications	MA 134 or MA 135	F,S
MN 324 (TG 324)	Design Modeling and Processes	MN 221; PH 120	F
MN 350	Machine Design	MN 204; MN 324	S
MN 354	Computer Aided Manufacturing (CAM)	MN 204, MN 350	F
MN 356	Robotic Fundamentals	ET 194; MA 140 and MN 260	F
MN 383	Fluid Power	MA 139 or MA 140; PH 120	S
MN 402	Plastics and Processes	MA 144 or MA 145; MN 354	F
MN 412	Advanced Manufacturing Systems	MN 356; MN 402; PH 121	S
MN 416	Manufacturing Seminar	Senior Standing	S
TN 100 (ET 100)	Networking Fundamentals and Router Technologies	Basic Computer Literacy: Windows and DOS	F
TN 101 (ET 101)	Network Design and Advanced Routing	TN 100	S
TN 254 (ET 254)	Fiber Optics & Network Communications	ET 245; PH 121	F
TN 255 (ET 255)	Micrcomputer Maintenance and Troubleshooting	None	F
TN 275 (ET 275)	Network Fundamentals	TN 254	F
TN 375 (ET 375)	Network Routing Protocols and Concepts	TN 275	S
TN 395 (ET 395)	Server Maintenance and Troubleshooting	TN 255; TN 275	S
TN 425 (ET 425)	Wireless Communciations & Mobile Data Networks	TN 275	S
TN 435 (ET 435)	Network Security	TN 375	F
TN 563	Local Area Network Switching	TN 275 or TN 562	S
TN 565	Network Management	TN 563	F
TN 566	IP Telephony	TN 563	S
UI 319	Technology & Society (300-level University Studies Interdisciplinary)	Economic, Social, Physical and Political Systems	F,S
UI 410	Manufacturing Research in a Global Society (400-level U.S. Interdisciplinary)	Completion of University Studies Core Curriculum	F,S
	* F = FALL SEMESTER, S = SPRING SEMESTER, SU = SUMMER SEMESTER	Last Updated by IET Department on: 07/17/09	
	***Frequency and semester of course offerings may change & students are advised to consult the semester schedule on the system portal for most up-to-date course offerings.**		

NOTE: Regardless of students major, changes in prerequisites are effective immediately and apply to all students.

Department of Industrial and Engineering Technology Prerequisites and Semester Rotation

Effective Fall 2008

OTHER DEPARTMENTS' COURSES USED IN MAJOR

COURSE	COURSE TITLE	PREREQUISITES
AC 221	Financial Accounting	AD 101 and MA 134 (both with C or better, sophomore standing)
AH 110	Art History Survey I	None
AH 210	Art History Survey II	None
AR 100	Drawing I	None
AR 104	Design Foundations	None
CH 181/001/081	Basic Principles of Chemistry	Pre or Co-requisite: MA 101 or MA 102 or equivalent
CH 185/005/085	General Chemistry I	Prerequisite: MA 101 or MA 102 or equivalent
EF 304	School & Society	Admission to Teacher Education Program;
		Sec Block I; US 105 or US 107; PS 103.
		Corequisite: Sec Block II
EF 400	Seminar/Educ Issues for Student Teachers	Secondary Blocks III. Co-requisites: SE 463; SE 464
EP 305	Digital and Analog System Design	PH 121 or PH 231 or Equivalent
EX 390	Psychology & Education of the Exceptional Child	EL 316 or ME 272 or SE 307
IS 175	Information Systems I	MA 134 with minimum grade of 'C' or high school equivalent
IS 275	Information Systems II	IS 175 and MA134 with minimum grades of 'C'
MA 101	Beginning Algebra	Course grade: CR or F. Prerequisite: ACT Math score 20 or below
MA 102	Intermediate Algebra	Course grade: CR or F. Prerequisite: Grade of CR for MA101
MA 133	Plane Trigonometry	Credit for MA101/MA102, MA 095 with a grade of 'C' or higher,
		or ACT Math score of 18-20 with MA095 placement score of 14
		or higher, or ACT Math score of 21 or higher
MA 134	College Algebra	Credit for MA101/102 and a passing score on the Intermediate
		Algebra Assessment, MA 095 with a grade of 'C' or higher, or
		ACT Math score of 18-20 with MA 095 placement score of 14 or
		higher, or ACT Math score of 21 or higher
MA 135	Precalculus	Credit may not be received for MA 133 or MA 134 and MA 135.
		Prerequisite: Credit for MA101/102 and a passing score on the
		Intermediate Algebra Assessment, MA 095 with a grade of 'C' or
		higher, or ACT Math score of 18-20 with MA 095 placement
		score of 14 or higher, or ACT Math score of 21 or higher
MA 139	Applied Calculus	MA 134 with minimum grade of 'C,' or 2 units high school algebra
		& 1 unit precalculus math. Cannot earn credit for MA139 & MA140
MA 140	Analytic Geometry & Calculus I	MA 134 and MA 133, or MA135 with "C" minimum grades or 2 units
		high school algebra, 1 unit geometry, and 1 unit precalculus math
		Cannot earn credit for MA139 AND MA140.
MA 144	Integral Calculus & Differential Equations	MA 140 with minimum grade of 'C'
MA 223	Elementary Probability & Statistics	MA 134 with minimum grade of 'C'
MI 440	Web Design Electronic Computing	IS 130 or MN 260 and MI 375 or TN 375 with a minimum grade of 'C'
MI 445	System Analysis & Design	IS 130 or MI 410 or MN 260 with a minimum grade of 'C
MG 301	Principles of Management	Junior standing (completion of 45 hours)
PH 120	Introductory Physics I	MA 133: MA 134, or MA 135
PH 121	Introductory Physics II	PH 120/020
QM 352	Quantitative Methods in Business	QM 257(or IM311) w/ minimum grades of 'C' & Junior standing
SE 200	Intro to Middle and Secondary Education Technology	none
SE 202	Intro to Middle and Secondary Education Teaching	none
SE 305	Secondary Block II Field Experience	Prerequisite: Block I. Co-requisite: Block II
SE 306	Theories of Learning & Management	Prerequisite: Block I. Co-requisite: Block II
SE 307	Teaching Reading/Secondary School	Prerequisite: Block I. Co-requisite: Block II
SE 308	Fund of High School Education	Prerequisite: Block I. Co-requisite: Block II
SE 275	Diversity in American Schools	none
SE 300	Techniques to Enhance Learning	None
SE 316	Tech of Teaching Technology Education***	Blocks I & II. Corequisite: Block III
SE 370	Sec Block III Fld Exp***	Blocks I & II. Corequisite: Block III
	***SE316 and SE370 are fall-only courses	
SE 463	Student Teaching Exp I	Senior status; one semester in residence; completion of all required
		professional education courses; 75% of academic coursework
		related to certification; good standing in Teacher Ed program
SE 464	Student Teaching Exp II	SE 463
SW 207	Understanding Cultural & Social Diversity	None

Course Eligibility: 100 level-any student; 200 level-must have completed at least 15 hours; 300 and 400 levels-must have completed at least 45 hours