

Bachelor of Science in Engineering Technology

Major in Global Manufacturing Systems Engineering Technology

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Semester 1 17 credits	Semester 2 17 Credits	Semester 3 17 Credits	Semester 4 17 Credits	Semester 5 16 Credits	Semester 6 16 Credits	Semester 7 17 Credits	Semester 8 17 Credits
EGR 102 First Year Exp. (0)	SET 101 Intro to Engr Tech II (0)	EGR 200* Prof Dev for Sophomores (0)	ECT 110 Electrical Circuits I (3)	SET 300 Prof Dev for Juniors (0)	IET 323 Project Management (3)	SET 400 Prof Dev for Seniors (1)	MFG 490 Senior Design Project (3)
EGR 150 Enrichment Workshop I (0)	EGR 151 Enrichment Workshop II (0)	MCT 215 Statics (3)	ECT 110L Electrical Circuits I Lab (1)	MCT 315 Dynamics (3)	MFG 431 Automation Controls (3)	IET 317 Industrial Economics (3)	ECT 408 Data Acquisition & Measure (2)
MCT 110L Tech Drawing & CAD (2)	MCT 112L Intro to Mech Design (3)	IET 408 Lean Management (3)	MFG 240 Mfg Product Design (3)	MCT 336 Fluid Power (3)	Language Requirement (4)	MFG 438 Sustain Mfg & Prod Design (3)	MFG 427 CIM & Global Mfg (3)
EGR 103 Engineering Innovation (2)	MTH 169 Calculus II (4)	MFG 204 Materials & Processes (3)	IET 316 Quantitative Methods (3)	MCT 336L Fluid Power Lab (1)	IET 318 Statistical Process Cntrl (3)	TECH EL (3)	Advanced Historical Studies (3)
MFG 108L Mfg Processes Lab (1)	CHM 123 General Chemistry (3)	MFG 204L Materials & Proc Lab (1)	PHY 201 General Physics I (3)	MFG 432 Plastic, Comp, Nano Matris (3)	MCT 221 Strength of Materials (3)	Language Requirement (4)	Advanced PHL/REL (Ethics) (3)
SET 150 Engineering Analysis (2)	CHM 123L General Chem Lab (1)	MFG 206L Dimensional Metrology (1)	PHY 201L General Phys I Lab (1)	MFG 434 Robotics & CNC (3)		Advanced PHL/REL (3)	Art Study (3)
MTH 168 Calculus I (4)	PHL 103 Introduction to Philosophy (3)	MTH 207 Introduction to Statistics (3)	ENG 200 Writing Seminar II (3)	SSC 200 (3)			
ENG 100 Writing Seminar I (3)	HST 103 The West & The World (3)	CMM 100 Principles of Oral Comm. (3)					
REL 103 Introduction to Religion (3)							

* COP 200 may be taken
in place of EGR 200

KEY

CAP Common
CAP Electives

Math
Science
ET Core

Technical
Elective

----- Corequisite or
concurrent

See reverse for course
prerequisites.

Consult academic advisor
for selection of approved
common academic
program (CAP) and
technical elective courses.

Course Prerequisites & Corequisites

Electronic & Computer Engineering Technology		
Course	Prereq(s)	Coreq(s)
ECT 110		ECT 110L; SET 150
ECT 110L		ECT 110
ECT 120	ECT 110, MTH 168	
ECT 206	ECT 120	ECT 206L
ECT 206L		ECT 206
ECT 224	ECT 110	ECT 224L
ECT 224L		ECT 224
ECT 306	ECT 206; MTH 169	ECT 306L
ECT 306L		ECT 306
ECT 357	ECT 224	
ECT 358	ECT 224, 361	ECT 358L
ECT 358L		ECT 358
ECT 361	SET 150	
ECT 362	ECT 361	
ECT 400	Permission of department chairperson	
ECT 408	ECT 110L; IET 316	
ECT 452	ECT 306, 408	
ECT 456	ECT 110 or EGR 203	
ECT 465	ECT 224	
ECT 466	ECT 224, 361	
ECT 490	CMM 100; ECT 306, 358, 408; IET 323	

Global Manufacturing Systems Engineering Technology		
Course	Prereq(s)	Coreq(s)
MFG 108L		
MFG 204		MFG 204L
MFG 204L		MFG 204
MFG 206L	MCT 110L	
MFG 240	MCT 110L; MFG 108L, 204	
MFG 400	Permission of department chairperson	
MFG 427	MFG 204; SET 150	
MFG 431	ECT 110; SET 150	
MFG 432	CHM 123; MFG 204	
MFG 434	MCT 110L; MFG 108L; SET 150	
MFG 438	MFG 108L, 204	
MFG 490	CMM 100; IET 316, 323; MFG 240, 431	

Industrial Engineering Technology		
Course	Prereq(s)	Coreq(s)
IET 230		
IET 316	MTH 169; MTH 207	
IET 317	SET 150; MTH 168	
IET 318	MTH 168; MTH 207	
IET 319	IET 318	
IET 320	MTH 207	
IET 321	IET 318; MTH 207	
IET 323	Junior or Senior status	
IET 330	MTH 168; IET 230	
IET 332	MCT 110L	
IET 335	SET 150	
IET 400	Permission of department chairperson	
IET 408	Junior or Senior status	
IET 415		
IET 420	Junior or Senior status	
IET 435	IET 230; Junior or Senior status or permission of department chairperson	
IET 490	CMM 100; IET 316, 317, 323, 332, 408	

Mechanical Engineering Technology		
Course	Prereq(s)	Coreq(s)
MCT 110L		
MCT 112L	MCT 110L	
MCT 215	SET 150	MTH 168
MCT 221	MCT 215; MFG 204, 204L; MTH 168	
MCT 231	MTH 168	
MCT 315	MCT 215; MTH 168; PHY 201	
MCT 320	MCT 112L, 221	
MCT 336		MCT 336L
MCT 336L		MCT 336
MCT 342	MCT 231; MTH 169	
MCT 400	Permission of department chairperson	
MCT 420	MCT 320, 315	
MCT 456	MCT 215 or EGR-201	
MCT 490	CMM 100; IET 323; MCT 320	MCT 420

Engineering Technology		
Course	Prereq(s)	Coreq(s)
SET 100		
SET 101		
SET 102	Permission of department chairperson	
SET 153L		
SET 198	Permission of department chairperson	
SET 200		
SET 298	Permission of department chairperson	
SET 300		
SET 398	Permission of department chairperson	
SET 400		
SET 498	Permission of department chairperson	
Mathematics		
Course	Prereq(s)	Coreq(s)
MTH 168		
MTH 169	MTH 168	
MTH 207		
Science		
Course	Prereq(s)	Coreq(s)
CHM 123		
CHM 123L		CHM 123
PHY 201		
PHY 201L		PHY 201 or 206
PHY 202	PHY 201	
PHY 202L	PHY 201L	
English		
Course	Prereq(s)	Coreq(s)
ENG 100		
ENG 200	ENG 100	

Choose courses from the list provided on your DegreeWorks screen for each area. Each column must have at least one check mark to complete CAP requirements. Classes counting for multiple CAP components are needed.

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