

Major: Mechanical & manufacturing Engineering Technology (Effective Fall 2025)

FIRST YEAR	Fall Semester		Spring Semester	
- Become familiar with the faculty, staff and lab facilities - Talk to faculty about joining their research group - Join IEEE, ASME and SME student chapters	EGT 116 Intro to Manufacturing	3	EGT 265 Manufacturing Processes & Metrology	3
	CMST 101: Public Speaking (Gen Ed Oral Communication)	3	EGT 212 Computer Aided Drafting and Design	3
	ENG 101 College Writing (Gen Ed Written Communication I)	3	STA 205 Introduction to Statistical Methods	3
	MAT 119 Pre-Calculus Mathematics	3	CHE 130 & 130L Chemistry, an Engineering Approach with lab	4
	Gen Ed Self & Society (Cul. Pluralism 1 of 1)	3	EGT 162 Industrial Electricity	3
	Total This Semester	15	Total This Semester	16
SECOND YEAR	Fall Semester		Spring Semester	
- Meet academic advisor to make sure the academic plan is complete, and graduation will be on time. - Become familiar with the COOP process by joining plant tours or shadowing the COOP students	PHY 211 General Physics with laboratory I (Gen Ed Sciences 1 of 2)	4	MAT 129 Calculus I (Gen Ed Math & Stat)	4
	EGT 267 Programming for Engineering Applications	3	PHY 213 General Physics with Laboratory II (Gen Ed Sciences 2 of 2)	4
	EGT 261 Engineering Materials	3	EGT 291W Writing in Engineering technology (Gen Ed Written Communication II)	3
	EGT 260 Ind. Stds, Safety and Codes	3	EGT 386 Electromechanical Instrumentation and control	3
	EGT 211 Quality Control	3		
	Total This Semester	16	Total This Semester	14
THIRD YEAR	Fall Semester		Spring Semester	
- Engage in research and developmental work with faculty - Apply and secure a COOP position with a plan to secure one in the fourth year through postings on EGT bulletin board or Engineering Technology Canvas course - Take leadership positions in the ASME, IEEE and SME Club	EGT 310 Project management and Problem Solving	3	EGT 320 Robotic Systems & Material Handling	3
	EGT 300 Statics and strength of Materials	3	EGT 340 Applied Dynamics	3
	EGT 365 EGT CNC & Manufacturing Process Planning	3	EGT 405: Metrology and Geometric Tolerancing	3
	Gen Ed Self & Society (Indiv. & Soc. 2 of 2)	3	EGT 301 Cooperative Education	3
	EGT Elective ² (1 of 3)	3	SOC 100: Introduction to Sociology (Gen Ed Individual and Society 1 of 2)	3
	Total This Semester	15	Total This Semester	15
FOURTH YEAR	Fall Semester		Spring Semester	
- Develop or refine resume - Apply for permanent positions - Accompany faculty who go to industry for COOP visits - Consider an online MS in Engineering Management at Temple	EGT 361 Fluid Power	3	EGT Elective ² (3 of 3)	3
	EGT 480 Machine Design	3	EGT 465 Automated Mfg. Systems	3
	EGT 416 Capstone I	1	EGT 417 Capstone II	3
	Gen Ed Culture & Creativity (1 of 2)	3	EGT 450 Thermodynamics and Heat Transfer	3
	Gen Ed Global Viewpoints (1 of 1)	3	Gen Ed Culture & Creativity (2 of 2)	3
	EGT Elective (2 of 3)	1		
	Total This semester	14	Total This Semester	15
Grand Total				120

¹ Qualified students (ENG ACT ≥26) should take ENG 151 instead of 101 and then EGT 291W.

² Students must choose 3 elective courses from the elective course pool shown below in consultation with their advisor

Elective Course Pool

EGT 280	Introduction to Microtechnology	3
EGT 318	Introduction to Nanotechnology	3
EGT 362	Tool Design and Computer Aided Mfg	3
EGT 423	Planning & Design of Industrial Facilities	3
EGT 394	Special Topics	3
EGT 412	Advanced CADD	3
EGT 462	Applied Finite Element Modeling	3
EGT 411	Quality Assurance and Auditing	3
EGT 341	Integrated Resource Management	3
EGT 330	Electrical Machines	3
EGT321	Productivity Mgmt., Scheduling & Planning	3

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