

Major Map

BULLETIN YEAR: 2020-2021 **Degree:** BSET

MAJOR: Mechanical Engineering Technology

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction. For more specific advice and up to date schedules, it is expected that students will regularly discuss their plans of study with academic advisors and monitor the current class schedules as students are responsible for ensuring that all requirements for graduation have been met.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 16	
³ MTH 130 Pre-Calculus	4	⁴ IET 130 Industrial Materials & Testing	3
ENG 101 Freshman Composition	3	MTH 132 Calculus I	4
⁴ IET 154 Engineering Design Graphics	3	PHY 130 College Physics I	4
⁴ IET 170 Manufacturing Processes I	3	PHY 170 College Physics I Lab	1
² U.P. Group I-B/Oral English Compet.	3	CHM 131 General Chemistry I	4
	Cr. Hrs.		Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 14		Semester: Spring Total Credit Hours: 15	
IET 279 Applied Statics (or EGR 251)	3	⁴ IET 181QR Alternative Energy Analysis	3
ENG 201 Intermediate Composition	3	IET 281 Dynamics (or EGR 253)	3
PHY 131 College Physics II	4	IET 291 Applied Circuits (or EGR 290)	3
PHY 171 College Physics II Lab	1	⁵ U.P. Group I-A	3
EGR 200 Comp Aided Problem Solving	3	⁵ U.P. Group II-A	3
	Cr. Hrs.		Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 18		Semester: Spring Total Credit Hours: 15	
IET 226 Parametric Design and Modeling	3	IET 350 Mechanism Design	3
IET 356 Thermodynamics	3	IET 379 Mech. of Materials (or EGR 255)	3
IET 365 Manufacturing Processes II	3	IET 453 Heat Transfer	3
IET 352 Applied Fluid Mechanics	3	U.P. Group III-A	3
IET 375 Robotics	3	U.P. Group III-B	3
U.P. Group IV-A	3		
	Cr. Hrs.		Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
IET 450 Mechanical Comp Aided Egr	3	IET 472 Instrumentation & Controls	3
EGR 489WI Senior Design I	3	EGR 499WI Senior Design II	3
¹ IET Technical Elective (from list)	3	¹ IET Technical Elective (from list)	3
IET 451 Geometric Dim. & Tolerancing	3	U.P. Group IV-B	3
IET 454 Machine Design	3	U.P. Group IV-C	3
	Cr. Hrs.		Cr. Hrs.
FIFTH YEAR (IF NEEDED)			
Semester: Total Credit Hours:		Semester: Total Credit Hours:	

120 hours minimum required for graduation

40 hours of 300-level or above required

¹ **Electives (6 hours):** Choose from: EGR 120, IET 324WI, 326, 327, 377, 426, 428, 437, 458, 500, MTH 133, STA 282QR

² TAI 170 completes the U.P. Group I-B and the Oral English Competency requirement, which must be fulfilled before 56 hours.

³ MTH 130 may be waived upon results of placement exam or permission of Mathematics advisor.

⁴ IET 130, 154, 170, and 181 are offered every semester.

⁵ Two Writing Intensive U.P classes must be taken before completing 56 credit hours.

Note: 12 hours of courses approved for Writing Intensive (WI) are required (Competency Requirement).