



Washkewicz College
of Engineering

MECHANICAL ENGINEERING TECHNOLOGY DEGREE CHARTS

IST Minor

(Prerequisites Included)

Select your Mathematics entry course:

1. [4-Year Plan](#)
2. [5-Year Plan](#)

Bachelor of MECHANICAL ENGINEERING TECHNOLOGY (MET) – Fall 2022

4-Year Recommended Course Sequence with IST Minor

Fall Semester 1	Spring Semester 2	Fall Semester 3	Spring Semester 4	Fall Semester 5	Spring Semester 6	Fall Semester 7	Spring Semester 8
MCE 180 [2] Computer Aided Engineering Lab I	MCE 181 [2] Computer Aided Engineering Lab II (MCE 180)	MET 201 [3] Statics for ET (MTH 149 and PHY 221 and ESC 120)	MET 202 [3] Dynamics for ET (MET 201)	MET 345 [3] Thermodynamics (PHY 221 and *MTT 300)	MET 330 [3] Advanced Dynamics & Vibrations (MTH 149 and MET 202)	MET 470 [1] Senior Design A (Senior Standing)	MET 480 [3] Senior Design B (MET 470)
ESC 120 [2] Intro to Engineering Design	PHY 221 [5] College Physics I (MTH 165 or MTH 167)	CHM 251 [3] College Chemistry 1 (MTH 149)	GET 315 [3] Advanced Program Methods	MET 320 [3] Adv. Mechanics of Materials (MTH 149 and MET 201)	MET 350 [3] Fluid Mechanics (MET 345 and MTT 300 and PHY 221)	MET 410 [3] Design of Machine Elements (MET 320 and MTT 301)	GET 430 [3] Elect Power, Controls, Instruments (MTT 301 and EET 205)
MTH 165 [3] Intensive Precalc I OR MTH 167 [3] Precalculus I	MTH 149 [4] Math for Business Majors II (MTH 165 or MTH 167)	CHM 256 [1] College Chemistry 1 Lab (MTH 149)	**ESC 130 [1] Engineering Co-op Orientation	MTT 300 [3] Applied Math (MTH 149)	MET 351 [2] Thermal Fluids Lab (MET 345 and *MET 350)	MET 411 [1] Design of Machine Elements Lab (MET 320 and MTT 301)	GET 431 [1] Elect Power, Controls, Instrument Lab (*GET 430) (WAC)
ENG 100 [3] Intensive Writing or ENG 101 [3] College Writing 1	ESC 102 [3] Technical Writing (Preferred) (ENG 100 or ENG 101)	GET 285 [3] Science of Alternative Energy	IST 203 [3] Software Tools	General Ed. Elective [3]	MTT 301 [3] Advanced Applied Math (MTT 300)	MET 445 [3] Solid Modeling Applications (MCE 181 and MET 320 and MET 350)	MET 450 [3] Mechanical System Design (MET 330 and MET 410 and MET 445)
GET 255 [3] Intro Robotics & Automated System	General Ed. Elective [3]	Communications Elective [3] (WAC)	PHL 215 [3] A&H Engineering Ethics (ENG 102 or ESC 102) (WAC)	IST 211 [4] Fundamentals of Systems Dev. (IST 203)	IST 321 [3] Systems Analysis Methods (IST 221)	MET 420 [3] Heat Transfer (MET 345 and MET 350 and MTT 301)	MET 494 [3] Advanced Topics in MET
ESC 100 [1] New Student Orientation		General Ed. Elective [3]	General Ed. Elective [3]		IST Elective [3]	IST 331 [3] Modern Database Design (IST 221)	General Ed. Elective [3]
EET 205 [3] DC Circuits						General Ed. Elective [3]	
17 Total Credit Hours	17 Total Credit Hours	16 Total Credit Hours	16 Total Credit Hours	16 Total Credit Hours	17 Total Credit Hours	17 Total Credit Hours	16 Total Credit Hours

Total Credits for MET Degree: 131 or 132 including ESC 130 Engineering Co-op Orientation

(Prerequisites) • (*Pre/co-requisite) • [# of Course Credits] • MET XXX = Only Offered That Fall/Spring Semester

	Required MET Courses **Highly recommended, yet optional.
	Required Science Courses
	Required English Courses (ESC 102 is preferred. However, can be substituted with ENG 102.)
	Required Writing Across the Curriculum (WAC)
	IST Minor Requirements

	Required MET Electives
	Required Math Courses
	General Ed. Electives (2 A&Hs, 2 SSS, 1 ALAAME, & 2 DIVs)
EASILY EARN AN OSM MINOR AS AN MET MAJOR! CLICK HERE TO LEARN HOW	

↓ **Scroll Down to View the 5-Year Plan Degree Chart** ↓

Bachelor of MECHANICAL ENGINEERING TECHNOLOGY (MET) – Fall 2022

5-Year Recommended Course Sequence with IST Minor

Fall Semester 1	Spring Semester 2	Fall Semester 3	Spring Semester 4	Fall Semester 5	Spring Semester 6	Fall Semester 7	Spring Semester 8	Fall Semester 9	Spring Semester 10
MCE 180 [2] Computer Aided Engineering Lab I	MCE 181 [2] Computer Aided Engineering Lab II (MCE 180)	GET 285 [3] Science of Alternative Energy	GET 315 [3] Advanced Program Methods	MET 201 [3] Statics for ET (MTH 149 and PHY 221 and ESC 120)	MET 202 [3] Dynamics for ET (MET 201)	MET 345 [3] Thermodynamics (PHY 221 and *MTT 300)	MET 330 [3] Adv. Dynamics & Vibrations (MTH 149 and MET 202)	MET 470 [1] Senior Design A (Senior Standing)	MET 480 [3] Senior Design B (MET 470)
ESC 120 [2] Intro to Engineering Design	MTH 149 [4] Math for Business Majors II (MTH 165 or MTH 167)	PHY 221 [5] College Physics I (MTH 165 or MTH 167)	CHM 251 [3] College Chemistry 1 (MTH 149)	MTT 300 [3] Applied Math (MTH 149)	MTT 301 [3] Advanced Applied Math (MTT 300)	MET 320 [3] Adv. Mechanics of Materials (MTH 149 and MET 201)	MET 350 [3] Fluid Mechanics (MET 345 and MTT 300 and PHY 221)	MET 410 [3] Design of Machine Elements (MET 320 and MTT 301)	GET 430 [3] Elect Power, Cont, Instru (MTT 301 and EET 205)
MTH 165 [3] Intensive Precalc I OR MTH 167 [3] Precalculus I	ESC 102 [3] Technical Writing (Preferred)	General Ed. Elective [3]	CHM 256 [1] College Chemistry 1 Lab (MTH 149)	PHL 215 [3] A&H Engineering Ethics (ENG 102 or ESC 102) (WAC)	IST 321 [3] Systems Analysis Methods (IST 221)	IST 331 [3] Modern Database Design (IST 221)	MET 351 [2] Thermal Fluids Lab (MET 345 and *MET 350)	MET 411 [1] Design of Machine Elements Lab (MET 320 and MTT 301)	GET 431 [1] Elect Power, Controls, Instrument Lab (*GET 430) (WAC)
ENG 100 [3] Intensive Writing or ENG 101 [3] College Writing 1	General Ed. Elective [3]	Communications Elective [3] (WAC)	**ESC 130 [1] Engineering Co-op Orientation	IST 211 [4] Fundamentals of Systems Dev. (IST 203)	General Ed. Elective [3]	Any course [3] of your choosing OR Repeat a course for higher grade	MET 494 [3] Advanced Topics in MET	MET 420 [3] Heat Transfer (MET 345 and MET 350 and MTT 301)	MET 494 [3] Advanced Topics in MET
GET 255 [3] Intro Robotics & Auto System	ESC 100 [1] New Student Orientation		IST 203 [3] Software Tools				IST Elective [3]	MET 445 [3] Solid Modeling Applications (MCE 181 and MET 320 and MET 350)	MET 494 [3] Advanced Topics in MET
			General Ed. Elective [3]					General Ed. Elective [3]	
13 Total Credit Hours	13 Total Credit Hours	14 Total Credit Hours	14 Total Credit Hours	13 Total Credit Hours	12 Total Credit Hours	12 Total Credit Hours	14 Total Credit Hours	14 Total Credit Hours	13 Total Credit Hours
Total Credits for MET Degree: 130 or 131 including ESC 130 Engineering Co-op Orientation									

(Prerequisites) • (*Pre/co-requisite) • [# of Course Credits] • MET XXX = Only Offered That Fall/Spring Semester

	Required MET Courses **Highly recommended, yet optional.
	Required Science Courses
	Required English Courses (ESC 102 is preferred. However, can be substituted with ENG 102.)
	Required Writing Across the Curriculum (WAC)
	IST Minor Requirements

	Required MET Electives
	Required Math Courses
	General Ed. Electives (2 A&Hs, 2 Ss, 1 ALAAME, & 2 DIVs)
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↓ **Be Sure to Select a Course Listed Below that Qualifies for Two (2) General Ed. Electives** ↓

To eliminate one (1) of your General Education Requirements,
consider taking a course that qualifies as two (2) General Ed. Electives

Updated Fall 2022

Recommended Courses that Qualify as Two (2) General Ed. Electives

Course	Social Sciences (SS)	Arts & Humanities (AH)	Non-Western Social Sciences (ALAAME & NW-SS)
ANT 275 – Ancient Mysteries	X		X
COM 233 – Bollywood & Beyond	X		X
HIS 104 – Modern World History	X		X
SOC 210 – Dev. Societies in Changing World	X		X
UST 206 – Megacities of Asia	X		X
ANT 103 – Rise/Fall of Civilizations		X	X
ART 281 – Asian Art		X	X
MUS 263 – Black Music of Two Worlds		X	X
REL 101 – Understanding Religion		X	X

**Popular Introductory General Ed. Courses
for Engineering Students**

- MUS 161 – Roots of Rock & Soul (AH)
- UST 201 – Building Cleveland (NEW) (AH)
- REL 101 – Understanding Religion (AH & ALAAME)
- UST 200 – Intro to Urban Studies (SS)
- ANT 275 – Ancient Mysteries (SS & ALAAME)
- SWK 150 – The Black Experience
(African American DIV)
- ANT 100 – Human Diversity (US DIV)
- SOC 201 – Race/Class/Gender (US DIV)