

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

- I cal Recommendea course sequence manistration									
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]	MCE 181 [2]	MET 201 [3]	MET 202 [3]	MET 345 [3]	MET 330 [3]	MET 470 [1]	MET 480 [3]		
Computer Aided	Computer Aided	Statics for ET	Dynamics for ET	Thermodynamics	Advanced Dynamics	Senior Design A	Senior Design B		
Engineering Lab I	Engineering Lab II	(MTH 149 and PHY	(MET 201)	(PHY 221	& Vibrations	(Senior Standing)	(MET 470)		
	(MCE 180)	221 and ESC 120)	(1012) 201)	and *MTT 300)	(MTH 149 and MET 202)	(Schiol Standing)	(11121 470)		
ESC 120 [2]	PHY 221 [5]	CHM 251 [3]	<u>GET 315</u> [3]	MET 320 [3]	MET 350 [3]	MET 410 [3]	<u>GET 430 [3]</u>		
Intro to		College Chemistry 1	Advanced Program		Fluid Mechanics		Elect Power, Controls,		
	College Physics I (MTH 165		U	Adv. Mechanics of		Design of Machine	Instruments		
Engineering	or MTH 167)	(MTH 149)	Methods	Materials (MTH 149 and MET 201)	(MET 345 and MTT 300	Elements	(MTT 301 and EET 205)		
Design					and PHY 221)	(MET 320 and MTT 301)			
MTH 165 [3]	MTH 149 [4]	CHM 256 [1]	**ESC 130 [1]	<u>MTT 300</u> [3]	<u>MET 351</u> [2]	<u>MET 411 [1]</u>	<u>GET 431</u> [1]		
Intensive Precalc I OR	Math for Business	College	Engineering	Applied Math	Thermal Fluids Lab	Design of Machine	Elect Power, Controls,		
MTH 167 [3]	Majors II	Chemistry 1 Lab	Co-op Orientation	(MTH 149)	(MET 345	Elements Lab	Instrument Lab		
Precalculus I	(MTH 165 or MTH 167)	(MTH 149)			and *MET 350)	(MET 320 and MTT 301)	(*GET 430) (WAC)		
ENG 100 [3]	ESC 102 [3]	CET 29E [2]	IST 203 [3]	General Ed.	MTT 201 [2]		MET 450 [3]		
	Technical Writing	<u>GET 285</u> [3]			MTT 301 [3]	MET 445 [3]	Mechanical		
Intensive Writing or	u u u u u u u u u u u u u u u u u u u	Science of	Software Tools	Elective [3]	Advanced Applied Math	Solid Modeling			
ENG 101 [3]	(Preferred)	Alternative Energy			(MTT 300)	Applications (MCE 181 and MET 320	System Design		
	(ENG 100					and MET 350)	(MET 330 and MET 410		
College Writing 1	or ENG 101)						and MET 445)		
<u>GET 255</u> [3]	General Ed.	Communications	PHL 215 [3] A&H	<u>IST 211 [4]</u>	<u>IST 321</u> [3]	<u>MET 420</u> [3]	MET 494 [3]		
Intro Robotics &	Elective [3]	Elective [3] (WAC)	Engineering Ethics	Fundamentals of Systems	Systems Analysis	Heat Transfer	Advanced Topics in MET		
Automated System			(ENG 102 or ESC 102)	Dev.	Methods	(MET 345 and MET 350			
			(WAC)	(IST 203)	(IST 221)	and MTT 301)			
ESC 100 [1]		General Ed.	General Ed.		IST Elective [3]	<u>IST 331</u> [3]	General Ed.		
New Student		Elective [3]	Elective [3]			Modern Database Design	Elective [3]		
Orientation						(IST 221)			
<u>EET 205</u> [3]						General Ed.			
DC Circuits						Elective [3]			
17 Total	17 Total	16 Total	16 Total	16 Total	17 Total	17 Total	16 Total		
<b>Credit Hours</b>	<b>Credit Hours</b>	Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	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 Math Courses									
Required English Courses (ESC 102 is preferred. However, can be substituted with ENG 102.) General Ed. Electives (2 A&Hs, 2 SSs, 1 ALAAME, & 2 DIVs)									
	Required Writing Across the Curriculum (WAC)								
	IST Minor Requirements								

 $\downarrow\,$  Scroll Down to View the 5-Year Plan Degree Chart  $\,\downarrow\,$ 

## 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	MCE 181 [2]	GET 285 [3] Science of	GET 315 [3] Advanced	MET 201 [3] Statics for ET	MET 202 [3] Dynamics for ET	MET 345 [3] Thermodynamics	MET 330 [3] Adv. Dynamics &	MET 470 [1]	<u>MET 480</u> [3]
Engineering Lab I	Computer Aided Engineering Lab II	Alternative	Program Methods	(MTH 149	(MET 201)	(PHY 221	Vibrations	Senior Design A (Senior Standing)	Senior Design B (MET 470)
Engineering Lab i	(MCE 180)	Energy	i iografii Methous	and PHY 221	(IVIET 201)	and *MTT 300)	(MTH 149	(Senior Standing)	(IVIET 470)
		Lifergy		and ESC 120)			and MET 202)		
ESC 120 [2]	MTH 149 [4]	PHY 221 [5]	CHM 251 [3]	MTT 300 [3]	MTT 301 [3]	MET 320 [3]	MET 350 [3]	MET 410 [3]	GET 430 [3]
Intro to	Math for Business	College Physics I	College	Applied Math	Advanced	Adv. Mechanics	Fluid Mechanics	Design of Machine	Elect Power,
Engineering	Majors II	(MTH 165	Chemistry 1	(MTH 149)	Applied Math	of Materials	(MET 345	Elements	Cont, Instru
Design	(MTH 165	or MTH 167)	(MTH 149)	(	(MTT 300)	(MTH 149	and MTT 300	(MET 320	(MTT 301
	or MTH 167)					and MET 201)	and PHY 221)	and MTT 301)	and EET 205)
MTH 165 [3]	ESC 102 [3]	General Ed.	CHM 256 [1]	PHL 215 [3] A&H	IST 321 [3]	IST 331 [3]	MET 351 [2]	MET 411 [1]	GET 431 [1]
Intensive Precalc I	Technical Writing	Elective [3]	College	Engineering Ethics	Systems Analysis	Modern Database	Thermal Fluids Lab	Design of Machine	Elect Power,
OR	(Preferred)		Chemistry 1 Lab	(ENG 102 or ESC 102)	Methods	Design	(MET 345	Elements Lab	Controls,
MTH 167 [3]			(MTH 149)	(WAC)	(IST 221)	(IST 221)	and *MET 350)	(MET 320	Instrument Lab
Precalculus I								and MTT 301)	(*GET 430) (WAC)
ENG 100 [3]	General Ed.	Communications	**ESC 130 [1]	<u>IST 211</u> [4]	General Ed.	Any course [3] of	MET 494 [3]	<u>MET 420</u> [3]	MET 494 [3]
Intensive Writing	Elective [3]	Elective [3]	Engineering	Fundamentals of	Elective [3]	your choosing	Advanced Topics	Heat Transfer	Advanced
or		(WAC)	Со-ор	Systems Dev.		OR	in MET	(MET 345	Topics in MET
ENG 101 [3]			Orientation	(IST 203)		Repeat a course		and MET 350	
College Writing 1						for higher grade		and MTT 301)	
<u>GET 255</u> [3]	ESC 100 [1]		IST 203 <mark>[3</mark> ]				IST Elective [3]	<u>MET 445</u> [3]	MET 494 [3]
Intro Robotics &	New Student		Software Tools					Solid Modeling	Advanced
Auto System	Orientation							Applications	Topics in MET
								(MCE 181 and MET	
			Conoral Ed					320 and MET 350)	
			General Ed.					General Ed.	
13 Total	13 Total	14 Total	Elective [3] 14 Total	13 Total	12 Total	12 Total	14 Total	Elective [3] 14 Total	13 Total
Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	Credit Hours	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 MET Electives Required MET Electives								
	Required Science Courses								
Re	Required English Courses (ESC 102 is preferred. However, can be substituted with ENG 102.) General Ed. Electives (2 A&Hs, 2 SSs, 1 ALAAME, & 2 DIVs)								

Required Writing Across the Curriculum (WAC)

EASILY EARN AN OSM MINOR AS AN MET MAJOR! CLICK HERE TO LEARN HOW

IST Minor Requirements

 $\downarrow\,$  Be Sure to Select a Course Listed Below that Qualifies for Two (2) General Ed. Electives  $\downarrow\,$ 

To eliminate one (1) o consider taking a course Recommended Courses	Popular Introductory General Ed. Courses for Engineering Students			
Course	Social Sciences (SS)	Arts & Humanities (AH)	Non–Western Social Sciences (ALAAME & NW-SS)	MUS 161 – Roots of Rock & Soul (AH)
ANT 275 – Ancient Mysteries	X		X	UST 201 – Building Cleveland (NEW) (AH)
COM 233 – Bollywood & Beyond	X		X	REL 101 – Understanding Religion (AH & ALAAME)
HIS 104 – Modern World History	X		X	UST 200 – Intro to Urban Studies <mark>(SS)</mark>
SOC 210 – Dev. Societies in Changing World	X		X	ANT 275 – Ancient Mysteries (SS & ALAAME)
UST 206 – Megacities of Asia	X		X	SWK 150 – The Black Experience
ANT 103 – Rise/Fall of Civilizations		Х	X	(African American DIV)
ART 281 – Asian Art		Х	X	ANT 100 – Human Diversity (US DIV)
MUS 263 – Black Music of Two Worlds		Х	X	
REL 101 – Understanding Religion		Х	X	SOC 201 – Race/Class/Gender (US DIV)