

PROGRAM PLANNING GUIDE

**MECHANICAL ENGINEERING TECHNOLOGY
A40320A**

Replaces Curriculum Schedule with Revision Date: SU2021

Date Revised: SU2022

CURRICULUM BY SEMESTER					
			Hours Per Week		
Course No.	Course Title		Class	Lab	Credits
Fall Semester					
DFT	151	CAD I	2	3	3
EGR	115	Intro to Technology	2	3	3
EGR	115A	Intro to Technology Lab	0	3	1
MEC	161	Manufacturing Processes I	3	0	3
		Math Elective	-	-	3
Spring Semester					
DFT	152	CAD II	2	3	3
DFT	154	Intro to Solid Modeling	2	3	3
ENG	111	Writing and Inquiry	3	0	3
MEC	130	Mechanisms	2	2	3
		Physics Elective	-	-	4
Summer Semester					
PSY	150	General Psychology	3	0	3
		English/Communication Elective	-	-	3
Fall Semester					
DFT	254	Interm. Solid Modeling & Rendering	2	3	3
EGR	251	Statics	2	2	3
ELN	260	Prog Logic Controllers	3	3	4
HYD	180	Fluid Power in Automation	2	3	3
HYD	191A	Selected Topics in Fluid Power Lab	0	2	1
MEC	180	Engineering Materials	2	3	3
Spring Semester					
EGR	252	Strength of Materials	2	2	3
EGR	285	Design Project	0	4	2
ISC	121*	Environmental Health & Safety	3	0	3
		Humanities Elective	-	-	3
		Major Elective	-	-	2
Spring Semester					
		Major Elective	-	-	3
Graduation Requirement Credit Hours:					68

ENGLISH/COMMUNICATION ELECTIVE					
			Hours Per Week		
Course No.	Course Title		Class	Lab	Credits
Credit Hours Needed:			3		
ENG	112	Writing and Research (University Transfer)	3	0	3
ENG	114	Professional Research & Reporting	3	0	3

Registrar's Office Approved 6/13/22

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HUMANITIES ELECTIVE								
Course No.			Course Title			Hours Per Week		
						Class	Lab	Credits
Credit Hours Needed:			3					
HUM	110	Technology and Society (University Transfer)			3	0	3	
HUM	115	Critical Thinking (University Transfer)			3	0	3	
PHI	240	Introduction to Ethics (University Transfer)			3	0	3	

MATH ELECTIVE								
Course No.			Course Title			Hours Per Week		
						Class	Lab	Credits
Credit Hours Needed:			3					
MAT	121	Algebra/Trigonometry I			2	2	3	
MAT	171	Precalculus Algebra (University Transfer)			3	2	4	

PHYSICS ELECTIVE								
Course No.			Course Title			Hours Per Week		
						Class	Lab	Credits
Credit Hours Needed:			4					
PHY	131	Physics-Mechanics			3	2	4	
PHY	151	College Physics I (University Transfer)			3	2	4	

MAJOR ELECTIVES								
Course No.			Course Title			Hours Per Week		
						Class	Lab	Credits
Credit Hours Needed:			5					
ARC	225	Architectural BIM I			1	3	2	
ARC	225A	Architectural BIM I Lab			0	3	1	
ATR	115	Introduction to Mechatronics			3	3	4	
CEG	111	Intro to Gis and Gnss			2	4	4	
DFT	153	CAD III			2	3	3	
ELC	131	Circuit Analysis I			3	3	4	
ELC	131A	Circuit Analysis I Lab			0	3	1	
TDP	110	Introduction to 3-D Printing			2	3	3	
WBL	111	Work-Based Learning I			0	10	1	
WBL	112	Work-Based Learning I			0	20	2	
WBL	113	Work-Based Learning I			0	30	3	
WBL	120	Career Readiness, Explor., & Employ.			2	3	3	
WBL	121	Work-Based Learning II			0	10	1	
WBL	122	Work-Based Learning II			0	20	2	
WBL	123	Work-Based Learning II			0	30	3	

* 10 hour OSHA Certification