



Mechanical Engineering Program: Undergraduate 5 years with 3 semesters Plan [Required Credit hours 210] [Applicable 2023 (1445)] Total courses = 63

Math & Basic Science
51 credit hours

Engineering Topics
107 credit hours

General Education
18 credit hours

Broad Education
26 credit hours

Major Design Experience
8 credit hours

FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR			FIFTH YEAR		
FALL (1)	WINTER (2)	SPRING (3)	FALL (4)	WINTER (5)	SPRING (6)	FALL (7)	WINTER (8)	SPRING (9)	FALL (10)	WINTER (11)	SPRING (12)	FALL (13)	WINTER (14)	SPRING (15)
UNI 1000 [2] University Elective 1	MAT 1115 [5] Calculus I PRE: MAT1122	UNI 1001 [2] University Elective 2	STA 1215 [4] Probability and Statistics for Engineers PRE: MAT1115	UNI 1002 [2] University Elective 3	UNI 1003 [2] University Elective 4	UNI 1004 [2] University Elective 5	UNI 1005 [2] University Elective 6	ME 1334 [4] Automatic Control PRE: ME1333	UNI 1006 [2] University Elective 7	UNI 1007 [2] University Elective 8	FRC 1001 [2] Free Elective 1	FRC 1002 [2] Free Elective 2	FRC 1003 [2] Free Elective 3	
MAT 1122 [5] Pre-Calculus	PHY 1117 [4] Physics I	CS 1108 [4] Computer Programming PRE: MAT 1115	GE 1201 [4] Statics PRE: MAT1116, PHY1117	MAT 1207 [5] Calculus III PRE: MAT1116	MAT 1236 [4] Mathematical Methods for Engineers PRE: MAT1207, MAT1228	MAT 1346 [4] Numerical Analysis PRE: MAT1236, CS1108	ME 1331 [4] Mechanics of Machines PRE: MAT1236, GE1202	ME 1324 [5] Heat Transfer PRE: ME1222	GE 1403 [4] Engineering Economy PRE: MAT1236	ME 1441 [4] Internal Combustion Engines PRE: ME1323	ME 1466 [4] Industrial and Environment Safety	UNI 1008 [2] University Elective 9	UNI 1009 [2] University Elective 10	
ENGL1120 [4] Technical Writing in English	PHY 1119 [1] Physics I Lab CO: PHY1117	MAT 1116 [5] Calculus II PRE: MAT 1115	ME 1211 [4] Materials Science and Engineering PRE: MAT1115, CHM1104	MAT 1228 [4] Linear Algebra & ODE PRE: MAT1116	GE 1202 [4] Dynamics PRE: GE1201	GE 1305 [4] Fundamentals of Electrical Engineering PRE: MAT1116, PHY1118, PHY1120	ME 1333 [4] Mechanical Vibrations PRE: MAT1236, GE1202	ME 1325 [1] Heat Transfer Lab PRE: ME1324	GE 1401 [4] Project Management PRE: STA1215	ME 1451 [5] HVAC Systems PRE: ME1324	ME 1493 [2] Graduation Project 1 Completion of 157 Credit hours	ME 1594 [3] Graduation Project 2 PRE: ME1493	ME 1595 [3] Graduation Project 3 PRE: ME1594	
GE 1103 [4] Engineering Graphics and Design	CHM 1104 [4] General Chemistry	PHY 1118 [4] Physics II PRE: PHY 1117, PHY 1119	ME 1221 [4] Thermodynamics I PRE: MAT1116, CHM1104	ME 1213 [1] Mechanics of Materials Lab CO: ME1216	ME 1222 [5] Fluid Mechanics PRE: ME1221, GE1201	ME 1323 [4] Thermodynamics II PRE: ME1221	ME 1365 [5] Machine Design I PRE: ME1216	ME 1363 [5] Manufacturing Technology PRE: ME1216, ME1213	ME 1436 [5] System Dynamics and Modeling PRE: ME1333	ME 1465 [5] Machine Design II PRE: ME1331, ME1365	ME 14** [4] Technical Elective 1	ME 14** [4] Technical Elective 2	ME 14** [4] Technical Elective 3	
	CHM 1105 [1] General Chemistry Lab CO: CHM1104	PHY 1120 [1] Physics Lab II PRE: PHY1117, PHY1119 CO: PHY1118		ME 1216 [4] Mechanics of Materials PRE: GE 1103, ME 1211, GE 1201	ME 1223 [1] Thermo-Fluids Lab PRE: ME1222			ME 1364 [1] Manufacturing Technology Lab CO: ME1363				GE 1302 [2] Professional Ethics for Engineers PRE: ME 1403	ME 14** [4] Technical Elective 4	
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**Engineering Training GE 1599 [0]
PRE: Completion of 210 credit hours**

Bachelor's of Mechanical Engineering Degree will be awarded on the successful completion of GE 1599