

MECHANICAL ENGINEERING

PROGRAM OF STUDY

2020-2022 UNDERGRADUATE CATALOG

Fall (Semester I)			Spring (Semester II)		
AIS 1203	Academic Inquiry and Scholarship (core)	3	MAT 1224	Calculus II	4
CHE 1103	General Chemistry I	3	PHY 1943	Physics for Sci and Engineers I (core and major)	3
MAT 1214	Calculus I (core and major)	4	PHY 1951	Physics for Sci and Engineers I Lab	1
ME 1403	Engineering Practice and Graphics	3	POL 1013	Intro to American Politics (core)	3
WRC 1013	Freshman Composition I (core)	3	WRC 1023	Freshman Composition II (core)	3
				American History core	3
Semester Credit Hours			Semester Credit Hours		
16			17		
Fall (Semester III)			Spring (Semester IV)		
EGR 2103	Statics	3	EE 2213	Electric Circuits and Electronics	3
EGR 2323	Applied Engineering Analysis I	3	EGR 2513	Dynamics	3
PHY 1963	Physics for Sci and Engineers II (core and major)	3	EGR 3323	Applied Engineering Analysis II	3
PHY 1971	Physics for Sci and Engineers II Lab	1	ME 3241	Materials Engineering Lab	1
EGR 1403	Technical Communication (or other core option)	3	ME 3243	Materials Engineering	3
Math/Science Elective		3	ME 3293	Thermodynamics I	3
Semester Credit Hours			Semester Credit Hours		
16			16		
Fall (Semester V)			Spring (Semester VI)		
ME 2173	Numerical Methods	3	ME 3263	Manufacturing Engineering	3
ME 3113	Measurements and Instrumentation	3	ME 3541	Dynamics and Controls Lab	1
ME 3663	Fluid Mechanics	3	ME 3543	Dynamic Systems and Control	3
ME 3813	Mechanics of Solids	3	ME 3823	Machine Element Design I	3
ME 4293	Thermodynamics II	3	ME 4313	Heat Transfer	3
Language, Philosophy & Culture core		3		Creative Arts core	3
Semester Credit Hours			Semester Credit Hours		
18			16		
Fall (Semester VII)			Spring (Semester VIII)		
ME 4312	Thermal and Fluids Lab	2	ME 4813	Senior Design II	3
ME 4543	Mechatronics	3	ME Technical elective		3
ME 4801	Manufacturing Practices Lab	1	ME Technical elective		3
ME 4812	Senior Design I	2	American History core		3
POL 1133	Texas Politics and Society (core)	3	Social and Behavioral Sciences core		3
or POL 1213	or Civil Rights in Texas and America				
ME Technical elective		3			
Semester Credit Hours			Semester Credit Hours		
14			15		
					Total Credit Hours
					128

Approved Math/Science Electives

BIO 1233. Contemporary Biology I	CHE 2603. Organic Chemistry I	PHY 2103 Modern Physics
BIO 1243. Contemporary Biology II	ES 2013. Intro to Environmental Sci. I	PHY 3203. Classical Mechanics I.
BIO 1404. Biosciences I.	GEO 1123. Life Through Time	STA 2303 Appl. Prob.& Statist for Engrs.
BIO 2003. Biology of Human Reproduction	MAT 3013. Foundations of Mathematics	STA 3003. Applied Statistics
CH 1113 General Chemistry II	MAT 3103. Data Anal. & Interpretation	