

Mechanical Engineering 5 Year Plan of Study for ROTC Students

First Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry	3	ENGE 1216	Foundations of Engineering	2
CHEM 1045	General Chemistry Lab	1	ENGL 1106	First-Year Writing	3
ENGE 1215	Foundations of Engineering	2	MATH 1226	Calculus of a Single Variable	4
ENGL 1105	First-Year Writing	3	PHYS 2305	Foundations of Physics	4
MATH 1225	Calculus of a Single Variable	4	MATH 2114	Intro to Linear Algebra	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
13 - 19			13-19		

Second Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ESM 2104	Statics	3	ESM 2304	Dynamics	3
MATH 2204	Multivariable Calculus	3	ISE 2214	Manufacturing Process Lab	1
PHYS 2306	Foundations of Physics	4	MATH 2214	Differential Equations	3
	Programming Elective	3	ME 2024	Intro to Eng. Design & Econ	3
	Area 6	1	ME 2124	Intro to Thermal & Fluid Eng.	2
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
15-19			14-19		

Third Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ESM 2204	Mech of Deformable Bodies	3	ECE 2054	Electrical Theory	3
ME 3124	Thermodynamics	3	ME 3514	System Dynamic	3
ME 3404	Fluid Mechanics	3	ME 3614	Mechanical Design I	3
STAT 3704	Engr Statistics	2		Area 3	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
13 - 19			14-19		

Fourth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ECE 3254	Industrial Electronics	3	ME 3304	Heat and Mass Transfer	3
MSE 2034	Elements of Materials Eng	3	ME 3504	Dynamics	3
	Technical Elective	3	ME 4005	Mechanical Eng. Lab	3
	Technical Elective	3		Technical Elective	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
14 - 19			14-19		

Fifth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ME 4006	Mechanical Eng. Lab	3	ME 4016	Eng. Design and Project	3
ME 4015	Eng Design and Project	3		Technical Elective	3
ME 4124	CAD of Fluid Thermal System	3		Technical Elective	3
	Area 2	3		Area 2	3
	Area 7	3		Area 3	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
15 - 19			15-19		