

EIGHT SEMESTER PLAN MECHANICAL ENGINEERING

Semester 1	Credits	Semester 2	Credits
SRH 101: Search Seminar or HNR 160: Honors Search	3	PHY 200/L: Physics I with Lab	4
CHE 104: General Chemistry	3	MAT 231: Calculus II	4
CHE 110L: General Chemistry I Lab	1	EGR 110: Engineering Design I	1
EGR 107: Engineering Lab Safety	1	THR 244: Computer-Assisted Design	3
EGR 260: Undergraduate Engineering Colloquium	0.25	COM 101: Composition & Research	3
MAT 230: Calculus I	4	THE 105 or PHI 105	<u>3</u>
CS 115: Intro to Object-Oriented Programming	<u>3</u>		
TOTAL	15.25	TOTAL	18
Semester 3	Credits	Semester 4	Credits
EE 200: Circuit Theory I	3	MAT 322: Differential Equations	3
EE 271L: Circuit Theory I Lab	1	EGR 210: Engineering Design II	1
PHY 201/L: Physics II with Lab	4	EGR 260: Undergraduate Engineering Colloquium	0.25
EGR 201: Engineering Statics	3	ME 201: Strength of Materials	3
THE 105 or PHI 105	3	ME 271L: Strength of Materials Lab	0.5
MAT 232: Calculus III	<u>4</u>	ME 211: Thermodynamics	3
		ME 202: Dynamics	3
		Gen Ed SEARCH	<u>3</u>
TOTAL	18	TOTAL	16.75
Semester 5	Credits	Semester 6	Credits
Gen Ed SEARCH	3	ME 341: Machine Design	3
Gen Ed SEARCH	3	ME 331: Heat Transfer	3
EGR 260: Undergraduate Engineering Colloquium	0.25	ME 372L: Heat Transfer Lab	0.5
ME 310: Fluid Mechanics	3	EGR 306: Measurement and Dynamic Response	3
ME 371L: Fluid Mechanics Lab	0.5	EGR 371L: Measurement and Dynamic Response Lab	0.5
PHY 304/L: Modern Physics w/Lab	4	EGR 310: Engineering Design III	3
MAT 345: Applied Probability & Linear Methods	<u>4</u>	PHI 208: Ethics and Technology	<u>3</u>
TOTAL	17.75	TOTAL	16
Semester 7	Credits	Semester 8	Credits
ME 4xx: ME Elective	3	ME 4xx: ME Elective	3
ME 47xL: ME Elective Lab	0.5	XE 4xx: Engineering Elective	3
XE 4xx: Engineering Elective	3	EGR: 481: Capstone Design II	2
EGR 260: Undergraduate Engineering Colloquium	0.25	Gen Ed SEARCH	3
EGR 480: Capstone Design I	2	Gen Ed SEARCH	<u>3</u>
Gen Ed SEARCH	3		
Gen Ed SEARCH	<u>3</u>		
TOTAL	14.75	TOTAL	14
ADDITIONAL GRADUATION REQUIREMENTS	RESIDENCY REQUIREMENTS	GRADUATION CREDITS EARNED	
___ SRH 101/HNR 160: FIRST YEAR SEMINAR	___ Minimum of 123 non-remedial credits earned	Liberal Arts Core credits earned	
___ HUMAN DIVERSITY	___ 45 of last 60 credits	Major and Related Area credits earned	
___ COMMUNITY SERVICE HOURS	___ Minimum of 12 Alvernia credits in the major	Elective and/or Minor credits earned	
___ OVERALL GPA = 2.0 or higher	___ Minimum of 9 Alvernia credits in the minor (if applicable)	SUBTOTAL	
___ GPA IN MAJOR = 2.0 or higher		SUBTRACT CREDITS EARNED FOR MAT 100, and if applicable COM 100	
___ 2.5 in Writing Courses		TOTAL GRADUATION CREDITS	
___ SENIOR CAPSTONE: met with EGR 480/481			
___ WRITING ENHANCED COURSE			