

GADOMSKI SCHOOL OF ENGINEERING B.S. IN **MECHANICAL** ENGINEERING

This **sample paradigm** shows a normal 4-year progression towards a degree in mechanical engineering. Some of the courses should be taken in this order due to prerequisite structures; others may be switched.

FRESHMAN YEAR

Semester I	Credits	Semester II	Credits
ENG 123	Writing and Critical Literacy	ME 110	Introduction to Mechanical Engineering 2
CHEM 115 & 115L	General Chemistry & Lab	ME 201	Manufacturing Processes
MATH 131	Calculus I	ENG 130	Writing & Critical Research
ME 121	Solids Modeling	MATH 132	Calculus II
CBU 101	Orientation	PHYS 150 & 150L	Physics I & Lab
-	General Education	-	General Education
Total		Total	

SOPHOMORE YEAR

Semester I	Credits	Semester II	Credits
CE 201	Statics	ECE 221	Electric Circuits I
MATH 231	Differential Equations	MATH 232	Calculus III
ME 112	Scientific Programming	ME 202	Dynamics
PHYS 251 & 251L	Physics II &Lab	ME 305	Thermodynamics I
_	General Education	ME/CE	210 Mechanics of Materials
		-	General Education
Total		Total	

JUNIOR YEAR

Semester I	Credits	Semester II	Credits
ME 301	Engineering Instrumentation Lab	ME 302	Energy Systems Lab
ME 313	Fluid Mechanics	ME 306	Heat Transfer
ME 316	Engineering Thermodynamics II	ME 318	Dynamics of Machines
ME 317	Kinematics	ME/ECE 322	Control Systems
PHYS 252	Physics III	-	MATH Elective
_	General Education	-	General Education
Total		Total	

SENIOR YEAR

Semester I	Credits	Semester II	Credits
ME/ECE 400	The Compleat Engineer	ME/CE 351	Engineering Economy
ME 401	Mechanical Systems Lab	ME 408	ME Project II
ME 407	ME Project I	-	ME Major Elective
ME 420	Machine Design	-	MATH Elective
ME 421	Thermal Systems Analysis & Design	-	Program Option
-	ME Major Elective		
Total		Total	

Total credits required for bachelor's degree completion: 132