

STUDENT \_\_\_\_\_

Student ID # \_\_\_\_\_

First Semester				Second Semester			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-110	Found Writ Arts & Hum	3		IGED-111	Found Writ Soc. & Nat Sc.	3	
IGED-130	Found Oral Comm.	3		MECH-108	Programming for Engrs	1	
CHEM-111	General Chemistry I Lec	3		MATH-152	Calculus II Lec	3	
CHEM-113	General Chemistry I Lab	1		MATH-156	Calculus II Lab	1	
MATH-151	Calculus I Lec	3		PHYS-201	University Physics I Lec	3	
MATH-155	Calculus I Lab	1		PHYS-205	University Physics I Lab	1	
CCEN-101	Intro to Engineering	2		MECH-107	ME Computer Graphics	3	
	<b>Total</b>	<b>16</b>			<b>Total</b>	<b>15</b>	
Third Semester				Fourth Semester			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
PHYS-202	University Physics II Lec	3		CVEN-202	Engineering Mechanics II	3	
PHYS-206	University Physics II Lab	1		MECH-206	Mech of Materials Lec	3	
CVEN-201	Engineering Mechanics I	3		MECH-207	Mech of Materials Lab	1	
MECH-205	Materials Science	3		MECH-208	Thermodynamics	3	
ELEC-225	Electric Circuits Lec	3		MECH-222	Engr. Measurements Lec	3	
ELEC-226	Electric Circuits Lab	1		MECH-224	Engr. Measurements Lab	1	
MATH-254	Differential Eq. (or 260)	3		MECH-302	Res Exp & Tech Comm*	3	
	<b>Total</b>	<b>17</b>			<b>Total</b>	<b>17</b>	
Fifth Semester				Sixth Semester			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-140	Found Ethics & Values	3		IGED-210	Discov Expos Writing	3	
CVEN-308	Appl. Num Analysis	3		MATH-253	Calculus III Lec	3	
MECH-381	Microcontrollers in ME	3		MATH-255	Calculus III Lab	1	
MECH-321	Fluid Mechanics Lec	3		MECH-351	Heat Transfer Lec	3	
MECH-322	Thermo/Fluid Lab	1		MECH-361	Machine Design	3	
MECH-341	Anal & Synth of Mechsm	3		MECH-371	Design of Control Sys Lec	3	
				MECH-373	Design of Control Sys Lab	1	
	<b>Total</b>	<b>16</b>			<b>Total</b>	<b>17</b>	
Seventh Semester				Eighth Semester			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-270	Discov Loc/Glob Cul	3		IGED-280	Discov Civ/Ser/Team	3	
MECH-406	Engineering Economics	3		MECH-462	Design of Energy Systems	3	
MATH-381	Probability & Statistics	3		MECH-492	Capstone Sr. Design Pr. II*	3	
MECH-491	Capstone Sr. Design Proj I*	3		MECH-xxx	**ME Technical Elective	3	
MECH-xxx	**ME Technical Elective	3		MECH-xxx	**ME Technical Elective	3	
	<b>Total</b>	<b>15</b>			<b>Total</b>	<b>15</b>	
					<b>GRAND TOTAL CREDITS</b>	<b>128</b>	

Advisor \_\_\_\_\_ Date \_\_\_\_\_

Department Chair \_\_\_\_\_ Date \_\_\_\_\_

- \*Contains intensive writing component
- \*\*ME Technical Electives (current concentrations in Adv. Manufacturing, Renewable Energy, and Biomedical): MECH-465, MECH-478, MECH-483, MECH-487, MECH-488, MECH-495, BMEG-301, BMEG-302, BMEG-404, BMEG-495, and ELEC-410.
- A completed copy of this form must accompany each student's Graduation Clearance Form

## MECHANICAL ENGINEERING Prerequisite Course List

Course No	Course Name	Co-Req	Pre-Requisite
CCEN-101	<i>Introduction to Engineering</i>	-	-
MECH-107	<i>ME Computer Graphics Lab</i>	-	-
MECH-108	<i>Programming for Engineers</i>	-	-
CVEN-201	<i>Engineering Mechanics-I</i>	-	PHYS-201
CVEN-202	<i>Engineering Mechanics-II</i>	-	CVEN-201
MECH-205	<i>Material Science</i>	-	CHEM-111
MECH-206	<i>Mechanics of Materials Lec</i>	MECH-207	MECH-205, CVEN-201
MECH-207	<i>Mechanics of Materials Lab</i>	MECH-206	-
MECH-208	<i>Thermodynamics</i>	-	PHYS-201
ELEC-225	<i>Electrical Circuits Lec</i>	ELEC-226	PHYS-201
ELEC-226	<i>Electrical Circuits Lab</i>	ELEC-225	-
MECH-222	<i>Eng. Measurements Lec</i>	MECH-224	ELEC-225
MECH-224	<i>Eng. Measurements Lab</i>	MECH-222	ELEC-226
MECH-302	<i>Research Experience &amp; Technical Communication</i>	-	CCEN-101, Permission of Instructor
MECH-321	<i>Fluid Mechanics Lec</i>	MECH-322	MATH-254 or 260 MECH-208, CVEN-202
MECH-322	<i>Thermo/Fluid Lab</i>	MECH-321	-
MECH-341	<i>Anal. &amp; Synth. of Mechanisms</i>	-	CVEN-202
CVEN-308	<i>Applied Numerical Analysis for Engineers</i>	-	MATH-254 or 260
MECH-351	<i>Heat Transfer</i>	-	MECH-321 MATH-254 or 260
MECH-361	<i>Machine Design</i>	-	MECH-206
MECH-371	<i>Design of Control Sys Lec</i>	MECH-373	MATH-254 or 260, ELEC-225
MECH-373	<i>Design of Control Sys Lab</i>	MECH-371	MECH-224, ELEC-226
MECH-381	<i>Microcontrollers in ME</i>	-	ELEC-225, Junior Standing
MECH-406	<i>Engineering Economics</i>	-	Senior Standing
MECH-462	<i>Design of Energy Systems Lec</i>	-	MECH-351
**MECH-465	<i>Advanced Manufacturing</i>	-	MECH-107, MECH-205, Junior Standing
**MECH-478	<i>Mechatronics</i>	-	MECH-381, Senior Standing
**MECH-383	<i>Robot Mechanics &amp; Control</i>	-	MECH-341, MECH-371, Senior Standing
**MECH-487	<i>Photovoltaic and Solar Thermal Energy</i>	-	MECH-205, Senior Standing
**MECH-488	<i>Fuel Cell Fundamentals &amp; Technologies</i>	-	Senior Standing
MECH-491/492	<i>ME Capstone Sr. Design Proj I/II</i>	-	Senior Standing