

## e+ Mechanical Emphasis Checklist

The e+ degree requirements include completion of 128 semester hours of required and elective courses with a minimum grade point average of 2.25. The minimum passing grade for prerequisite and corequisite courses for the e+ Mechanical Emphasis curriculum is a C, including courses completed outside the department (APPM, PHYS, etc.).

The e+ Mechanical Emphasis curriculum consists of 53-54 engineering credit hours, including a two-semester capstone design experience. All students must take the Fundamentals of Engineering (FE) exam prior to graduation.

	Course Title/Subject	Course Number	Grade	Term	Hours
<b>Engineering Core</b>	Computer Science 1: Starting Computing Engineering Applications	CSCI 1320†			4
	Engineering Projects	GEEN 1400			3
	Materials for Engineers <i>or</i> Materials Science	GEEN 3024 <i>or</i> MCEN 2024			3
	Engineering for the Community	GEEN 2400			3
	Statics for Engineers	GEEN 2851			3
	Circuits for Engineers	GEEN 3010			3
	Data Analysis	GEEN 3853			4
	Invention and Innovation	GEEN 3400			3
	Thermodynamics for Engineers	GEEN 3852			3
<b>Mechanical Emphasis</b>	Mechanics of Solids	MCEN 2063			3
	Fluid Mechanics	MCEN 3021			3
	Dynamics	MCEN 2043			3
	Component Design	MCEN 3025			3
	System Dynamics	MCEN 4043			3
	Technical Elective. Select <b>one</b> of the following:				
	Engineering Drawing <i>or</i> Computer-Aided Design and Fabrication	GEEN 1017 <i>or</i> MCEN 1025			3-4
	Engineering Economics	EMEN 4100			
	Capstone Design 1***	MCEN 4045***			3
	Capstone Design 2	MCEN 4085			3
Fundamentals of Engineering Exam Required	FE Exam			-	

† Standard course substitutions:

CHEN 1310: CSCI 1300 (4), CSCI 1320 (4), or ECEN 1310 (4)

Last updated 31 January 2020

\*\*\*All students must attend the Junior Pre-Expo or the ME Design Expo to register for the course by June 1st.