

Upper Division 3 Year Course Plan—AY 21-22

Department of Mechanical and Materials Engineering

Modified Upper Division BSME Course Plan

FRESH/SOPH			JUNIOR YEAR 1			JUNIOR YEAR 2			SENIOR YEAR			
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	
Math / Science Requirements												
<p>This course plan is for students formally admitted into the upper division BSME program.</p>												
Engineering / Computer Science Requirements												
			PROP OF MAT ME 213/L	SVY MFC PROF ME 240/L		FLUID MECH ME 320/L	APPLIED FLUID THERMO ME 322	HEAT TRANS ME 323	CAPSTONE			
			GEO MODEL ME 250/L	DESIGN MACH ME 314		ENGR THERMO ME 321	ENGR MEAS ME 411/L	APPROVED ME ELECTIVE	ME 491	ME 492 ¹	ME 493 ¹	
			MECH ANALYS ME 313	SYS DYN MODEL ME 351					ME PROF ME 370 ¹	DOE ME 488 ¹	APPROVED ME ELECTIVE	APPROVED ME ELECTIVE
			PROG. ME 350						APPROVED ME ELECTIVE			
General Education Requirements												
				TECH REPORT WRITING WR 327		BA 306U OR EC 314U		UNST UP DIV CLUST				
				UNST UP DIV CLUST								
EXPLANATION												

CREDIT HOURS

1	ME 491 & 492 fulfil UNST Capstone
2	
3	¹ May be offered in one of the following formats: Attend Anywhere, Hybrid, or Remote Synchronous
4	

2021-2022

Refer to the PSU Bulletin for General Education & Lower Division BSME Requirements

General Education Requirements Undergraduate Engineering Programs

There are **two** (2) separate sets of general education requirements:

- University Requirements
- Maseeh College of Engineering and Computer Science (MCECS) Requirements

You must satisfy **BOTH** sets of requirements.

University Requirements

- A. Freshmen entering with 29 or fewer prior university/college credits must complete all University Studies Requirements, including freshman and sophomore inquiry sequences and upper division cluster courses
- B. Continuing and transfer students with 30-89 prior university/college credits must complete the following program:
 - Sophomore Inquiry: 30-59 credits, three courses; 60-74 credits, two courses; 75-89 credits, one course. The upper division cluster must be linked with one of these Sophomore Inquiry courses.
 - Upper Division Cluster: three courses
- C. Continuing and transfer students with 90 or more prior university/college credits must complete the following program:
 - University Studies requirements beginning with Upper Division Cluster Courses (*it is strongly recommended that students also take the single Sophomore Inquiry courses that is linked to the chosen Upper Division Cluster*)
- D. Continuing and transfer students with 135 or more prior university/college credits are not required to complete the Upper Division Cluster*

Placement For Transfer Students

Credits Transferred	University Studies Placement
0-29 Credits	Freshman Inquiry
30-59 Credits	3 Sophomore Inquiries
60-74 Credits	2 Sophomore Inquiries
75-89 Credits	1 Sophomore Inquiries
90-134	Upper Division Cluster
135+ credits*	NA*

*Only applicable to students admitted to PSU Fall 2020 or later. Students admitted Summer 2020 or earlier who have completed 135+ credits will still be required to complete the Upper Division Cluster.

Maseeh College of Engineering and Computer Science General Education Requirements

- A. Transfer students must complete a minimum of 27 credits of University Studies courses and/or Arts and Letters/Social Science courses at either their previous college or PSU in addition to the 12 credits of required upper division cluster courses that must be taken at PSU
- B. Transfer students who have not taken Freshman Inquiry must have completed:
 - **For Computer, Electrical, and Mechanical:** WR 121 and COMM 220 or equivalent course
 - **For Civil and Environmental:** WR 121, WR 227, and COMM 100 or 220 (recommended)
- C. Mechanical Engineering students must complete BA 306U Essentials of Finance or EC 314U Public & Private Investment Analysis
 - Students may use BA 306U as a University Studies course in the following cluster:
 - Design Thinking/Innovation/Entrepreneurship
 - Students may use EC 314U as a University Studies course in the following clusters:
 - Community Studies
 - Design Thinking/Innovation/Entrepreneurship
 - Knowledge, Values and Rationality

Students should consult with their academic advisor regarding these requirements.