## ME 320 First Plan-AY 20-21

Bachelor of Science in Mechanical Engineering

## **Suggested 4 Year Course Plan**

	FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			
	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	
		Math / Science Requirements											
			LIN	CALC	DIF								
			ALG	IV	EQ I								
Ш	МТН	МТН	МТН	МТН	МТН								
	251	252	261	254	256								
	CUEN CUEN			PHYSICS									
	CHEM CH	CHEM CH	SCIENCE ELECTIVE <sup>1</sup>	PH 211	PH 212	PH 213							
	221	222											
Ш	CH 227	CH 228		PH 214	PH 215	PH 216	. C-!	D!					
	FRESHMAN ENGINEERING					Compute		Kequirem	GEO		CAPSTON	=	
	ME	ME	ME	STATICS	STREN OF MAT	DYNAMICS	PROP OF MAT	MECH ANALYS	MODEL	ME 491	ME 492		
	120	121	122	EAS 211	EAS	EAS 215	ME		ME 250/L			ME 493	
					212		213/L	ME 313	DESIGN MACH	ME PROF ME 370			
						ELECT	SVY MFC		ME 314			APPROVED	
						CIRC	PROF ME 240/L	APPLIED FLUID		DOE	ENGR MEAS	ME =	
						ECE 241/L	,	THERMO		ME 488	ME 411/L	ELECTIVE	
						, _	FLUID	ME 322	SYS DYN MODEL				
							MECH ME 320/L	LIEAT	ME 351	APPROVED	APPROVED		
							,	HEAT TRANS		ME ELECTIVE	ME ELECTIVE		
							ENGR	ME 323		EEECHVE	LLLCTIVE		
							THERMO						
							ME 321	PROG.		APPROVED			
								ME 350		ME ELECTIVE			
									•				
						l Educatio	n Require	ements					
	FRESH	HMAN INC	QUIRY	SOPHO	MORE IN	QUIRY <sup>2</sup>	TECH		DA 20CH		UNST	UNST	
				UNST	UNST	UNST	REPORT		BA 306U OR		UP DIV	UP DIV	
	UNST	UNST	UNST	2XX	2XX	2XX	WRITING WR 327		EC 314U		CLUST	CLUST	
	1X1	1X1	1X1										
	EXPLANATION												

### CREDIT HOURS

Shaded Area = Core Admission Requirements

ME 491 & 492 fulfill UNST Capstone

Transfer students with more then 30 credits must complete
WR 121 and COMM 220 instead of FRINQ

Students may substitute Physics 221-223 for Physics 211-213 if completed prior to Fall 2018

## 2020-2021

# Refer to the PSU Bulletin for General Education Requirements

<sup>&</sup>lt;sup>1</sup> Approved Science Elective: Any course from Biology, Environmental Science & Management, Chemistry, Geology or Physics not explicitly listed as a degree requirement or Upper Division Cluster course (CH 104-106, PH 201-203, PH 221-223 are also excluded)

 $<sup>^{\</sup>rm 2}$  At least one of the following: UNST 220, UNST 222 (preferred), UNST 239

# 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*

<sup>\*</sup>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 additional 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.