

ME 320 First Plan

Department of Mechanical and Materials Engineering

Mechanical Engineering Program

pdx.edu/mme/undergraduate-mme

Suggested 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING
Math / Science Requirements											
CALCULUS		LINEAR	CALC	DIF					STAT		
MTH	MTH	ALG	IV	EQ I					353*		
251	252	MTH	MTH	MTH							
261	254	256	PHYSICS								
CHEM	CHEM		PH	PH	PH						
CH	CH		221	222	223						
221	222		PH 214	PH 215	PH 216						
CH 227	CH 228										
Engineering / Computer Science Requirements											
FRESHMAN ENGINEERING			STATICS	STREN	DYNAM	ENGR	APPLIED	SYS DYN	CAPSTONE		
ME 120	ME 121	ME 122	EAS 211	OF MAT	-ICS	THERMO	FLUID	MODEL	ME 491	ME 492	ME 493
			PROP	SVY MFC	ELECT	ME 321	THERMO	ME 351	DOE		
			OF MAT	PROC	CIRC	FLUID	MECH	DESIGN	ME 488		
			ME 213/L	ME 240/L	ECE 241/L	MECH	ANALYS	MACH	APPROVED	ENGR	APPROVED
				GEO Model		ME 320/L	ME 313	ME 314	ME	MEAS	ME
				ME 250/L		ME PROF	HEAT		ELECTIVE	ME 411/L	ELECTIVE
						ME 370	TRANS		APPROVED	APPROVED	
							ME 323		ME	ME	
							PROG.		ELECTIVE	ELECTIVE	
							ME 350				
General Education Requirements											
FRESHMAN INQUIRY			SOPHOMORE INQUIRY			PRIV		TECH	UNST		UNST
UNST	UNST	UNST	UNST	UNST	UNST	PUBLIC		REPORT	UPPER		UPPER
1X1	1X2	1X3	2XX	2XX	2XX	INVEST		WRITING	DIVISION		DIVISION
						EC 314U		WR 327	CLUSTER		CLUSTER

EXPLANATION

CREDIT HOURS

1	ME 491 & 492 FULFILL UNST CAPSTONE	STUDENTS MAY SUBSTITUTE PHYSICS 211-213	2016-2017
2	SHADED AREA = CORE ADMISSION REQUIREMENTS	FOR PHYSICS 221-223	
3	TRANSFER STUDENTS WITH MORE THEN 30 CREDITS	Refer to the PSU Bulletin for General Education Requirements	
4	MUST COMPLETE WR 121 AND COMM 220 INSTEAD OF FRINQ	*If you have taken STAT 451 prior to Fall 2016, it will fulfill the statistics requirement.	

12/21/16 CS



Maseeh College of Engineering and Computer Science

General Education Requirements Undergraduate Engineering Programs

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

1. University Requirements
2. 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 course that is linked to the chosen 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 or more credits	Upper Division Cluster

Maseeh College of Engineering and Computer Science General Education Requirements

- a) Transfer students must have a minimum of 27 credits of University Studies courses and/or Arts and Letters/Social Science courses at their previous college or at PSU prior 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) All engineering students must complete EC 314U Public and Private Investment Analysis. Students may use EC 314U as a University Studies course in the following clusters:
 - Community Studies
 - Design Thinking/Innovation/Entrepreneurship
 - Knowledge, Values and Rationality clusters.

Students should consult with their academic advisor or department chair regarding these requirements.