

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