

Portland State University

Mechanical Engineering

Possible 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING
Math / Science Requirements											
CALCULUS			CALC IV MTH 254	DIF EQ I MTH 256			STATS 451				
MTH 251	MTH 252	MTH 253									
CHEM	CHEM	CHEM	PHYSICS						PHYS METAL PH 381		
CH 221	CH 222	CH 223	PH 221	PH 222	PH 223						
CH 227	CH 228		PH 214	PH 215	PH 216						
Engineering / Computer Science Requirements											
ENGR PROB SOLV EAS 101		ENGR GRAPH EAS 115	STATIC EAS 211	STREN OF MAT EAS 212	DYNAM EAS 215	ENGR THERM ME 321	THERM FLUIDS ME 322	HEAT TRANS ME 323	DES ME 491 DOE ME 488	DES PROJECT I ME 492	DES PROJECT II ME 493
			PROP OF MAT EAS 213	ELECT CIRC ECE 221 & 201	MFG PROC ME 241	FLUID MECH EAS 361	MECH ANAL ME 313	DESIGN MACH ME 314	SYSTS DESIGN ME 420 ME 437	ENGR MEAS ME 411	Approved ME Elective
						NUM METH ME 352	SYS DY MODEL ME 351		Approved ME Elective	Approved ME Elective	Approved ME Elective
General Education Requirements (see reverse side)											
FRESHMAN INQUIRY			SOPHOMORE INQUIRY			PRIV PUBLIC INVEST EC314U		UNST UP DIV CLUST			
UNST 101	UNST 102	UNST 103	UNST 299	UNST 299	UNST 299				UNST UP DIV CLUST		

EXPLANATION

CREDIT HOURS

1	SHADED AREA—CORE REQUIREMENTS	STUDENTS MAY SUBSTITUTE	2004-05
2	STUDENTS MUST TAKE EITHER ME 420 OR ME 437	PHYSICS 211-213 FOR PHYSICS 221-223	
3	ME 491 & 492 FULFILL UNST CAPSTONE		
4			

General Education Requirements Undergraduate Engineering Programs Portland State University

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. Freshman 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 30-44 prior university/college credits must complete the following program:
 - Transfer Transition Course UnSt 201-210
 - University Studies beginning with Sophomore Inquiry
- C. Continuing and transfer students with 45-89 prior university/college credits must complete the following program:
 - Sophomore Inquiry: 45-59 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.
- D. 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.
- E. Bachelor of Science degree requires a minimum of 12 credits of Arts & Letters or Social Science distribution areas. See the *PSU Bulletin* for complete University Requirements detail for BS degrees.

Maseeh College of Engineering and Computer Science General Education Requirements

- a) Freshmen admitted beginning with the 1994-95 academic year satisfy the PSU general education requirement with the University Studies Program.
- b) Transfer students must have a minimum of 39 credits of University Studies courses and/or arts and letters/social science courses at their previous college or at PSU prior to graduation. 12 of these credits are upper division cluster courses that must be taken at PSU.
- c) Transfer students who have not taken Freshman Inquiry must have completed SP 100 (or equivalent) and WR 121 as part of the 39 credits of arts and letters/social sciences.
- d) All engineering students must complete EC 314U Public and Private Investment. Students may use EC 314U as a University Studies course in the Community Studies Cluster, the Knowledge, Rationality, and Understanding Cluster, or the Culture of Professions Cluster.

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