

Mapping of OSU, College of Engineering Pre-Engineering, Core and Prerequisite Course Availability at Oregon Community Colleges (Source: John Shea, 7/25/05)

Conclusion: Except for Chemical and Nuclear Engineering, a community college student at the identified community colleges can, with proper course selection and advising, obtain all pre-engineering core and prerequisite courses at their community college with, for some, Summer term at either LBCC or OSU. This will allow the student to enter the third year, i.e. beginning of the professional program, at OSU with the necessary coursework.

Note 1: Engineering is a 4-year ABET accredited program. Course selection for the degree begins with the first term of the first year.

Note 2: Chemical and Nuclear Engineering require the student to be at OSU Fall term of the second year.

Community Colleges Offering a Significant Pre-Engineering Program

All = all courses available. Negative number = number of courses not available at the community college

Engineering Major	COCC	Clackamas	Chemeketa	Lane	LBCC	Mt. Hood	PCC	SOCC	Umpqua
Bioengineering	All	All	All	All	All	All	All	All	All
Chemical	-1	-1	-1	-1	-1	-1	-1	-1	-1
Civil	-1	-1	All	-1	All	-1	-1	-1	-1
Computer	-4	-4	-1	-3	All	-4	All	-2	-4
Electrical	-3	-4	-1	-3	All	-4	-1	-2	-4
Environmental	-1	-1	All	-1	All	-1	-1	-1	-1
Industrial/Mfg.	-1	-1	All	-1	All	-1	-1	-1	-1
Mechanical	All	All	All	All	All	All	All	All	All
Nuclear	-2	-2	-2	-2	-2	-2	-2	-2	-2

Pre-Engineering courses not offered at all of the community colleges

X = Course offered	COCC	Clackamas	Chemeketa	Lane	LBCC	Mt. Hood	PCC	SOCC	Umpqua
ChE 211 Energy Balance	X	X	X	X	X	X	X	X	X
ECE 271 Digital Logic	X	X	X	X		X		X	X
ENGR 202 E-Fund. II	X	X		X		X			X
ENGR 203 E-Fund. III	X	X		X		X		X	X
MTH 231 Discrete Math	X	X				X		X	X
MTH 255 Vectors II		X					X	X	X
NE 234/5 Nuclear Physics	X	X	X	X	X	X	X	X	X
ST 314 Engr. Statistics	X	X		X		X	X	X	X

Note: Except for ChE 211 and NE 234/5, all courses not offered at the community colleges are available at either LBCC or OSU during the Summer term.