



CIVIL ENGINEERING ADVISING GUIDE

2011 - 2012 DRAFT

Last revised 4/27/2011

NOTE: Please see reverse side for footnotes and additional information.

PREREQUISITES

Plc=placement, Prq=prerequisite,
Pr/c=prerequisite or concurrent,
Rec=recommended

ENGINEERING COURSES

Course Number	Course Name	OIT - K. Falls	OSU	PSU	UP	
ENGR 101	Engr Fundamentals	4	4	4	4	Plc MTH 251; Pr/c WR 115; Dep't Approval
ENGR 102	Engr Graphics	3	3	3	3	ENGR 101
ENGR 211	Statics	4	4	4	4	MTH 252, PHY 211, ENGR 101
ENGR 212	Dynamics	4	4	4	4	ENGR 211
ENGR 213	Strength of Materials	4	4	4	4	ENGR 211
ENGR 221	Electrical Circuits I	--	5	--	--	ENGR 101, MTH 252; Rec MTH 253 & PHY 213
ENGR 226	Plane Surveying	4	-- ⁶	4	4	ENGR 101, ENGR 102

COMMUNICATIONS COURSES (see specific requirements on reverse)

WR 121	English Composition	4	4	4	4 ⁷	WR 115 & RD 115 or Plc WR 121
WR 122	English Composition	4	--	--	--	WR 121
WR 227	Tech./Prof. Writing 1	4	4	4	--	WR 121
SP	Speech	4	4	4	--	SP 100: WR 115, RD 115; SP 111: WR 121

SCIENCE/PROGRAMMING COURSES

CH 221	General Chemistry	5	5 ⁵	5	5	Pr/c MTH 111B or C; Rec HS Chem. or CH 100
CH 222	General Chemistry	5	5 ⁵	5	5	CH 221
PHY 211	Physics (Calculus)	5	5	5	5	Prq MTH 251, Pr/c MTH 252
PHY 212	Physics (Calculus)	5	5	5	5	PHY 211, MTH 252
PHY 213	Physics (Calculus)	5	5	5	5	PHY 211, MTH 252
CS/CIS	Programming	4 ⁴	4 ⁴	--	--	
G 201	Physical Geology	4	--	--	--	WR 115, RD 115, MTH 20
GEO 265	Introduction to GIS	--	4	--	--	WR 115, RD 115, MTH 20

MATHEMATICS COURSES

MTH 243	Statistics I	4	4 ⁸	--	--	MTH 111B or MTH 111C, Plc WR 121
MTH 251	Calculus I	4	4	4	4	MTH 112 or MTH 116 or CMET 131; Plc WR 121
MTH 252	Calculus II	5	5	5	5	MTH 251, Plc WR 121
MTH 253	Calculus III	5 ²	5 ³	5 ²	5	MTH 252, Plc WR 121
MTH 254	Vector Calculus I	5	5	5	5	MTH 253, Plc WR 121
MTH 256	Differential Equations	5	5	5	5	MTH 253, Plc WR 121
MTH 261	Linear Algebra	--	5 ³	5	5	MTH 253, Plc WR 121

GENERAL EDUCATION AND OTHER REQUIREMENTS

GEN ED	General Education ¹	15	22	15	20	
HPE 295	Health & Fitness	--	3	--	--	

Total Credits Shown	115	127	104	101
Transfer Maximum	124	124	124	124



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Beginning students must see an engineering advisor and complete an application prior to registering for classes.

This guide is a listing of course work that will be transferable to the Universities indicated. Courses may be taken any term that they are offered, and in any order, as long as prerequisites are satisfied. It is the student's responsibility to develop a term-by-term educational plan, and advisors in the engineering office are happy to assist students in doing so. See the "Planned Offerings" sheet for the terms in which courses are expected to be offered.

This is a transfer guide, not a graduation guide. If you are interested in obtaining a degree, see the PCC catalog for degree requirements. It is recommended, however, that students prepare for transfer rather than seek a degree.

This guide is based on PCC's understanding of university requirements, but PCC makes no warranties as to the accuracy of this information. It is each student's responsibility to check with the university and department to which they intend to transfer to obtain official information. If the credit hours for a particular institution are shown "grayed out" in this guide, it is especially important that students verify this information with the university.

Summary of Communications requirements

Univ.	Writing requirement	Speech requirement
OIT	WR 121, WR 122, and WR 227	SP 111
OSU	WR 121 and WR 227	SP 111 or SP 112
PSU	WR 121 and WR 227	SP 111 is recommended, but SP 100 is accepted
UP	WR 121 ⁷	Speech is not required

Footnotes referenced on the reverse side

1. See General Education Advising Guide for Engineering Students.
2. MTH 253 is not required for the university indicated, but is a prerequisite for MTH 254, MTH 256, and MTH 261 at PCC.
3. At OSU, PCC's MTH 253 + MTH 261 will be accepted as satisfying MTH 306.
4. The following courses will satisfy the programming requirement for OSU and OIT: CS 161 (C++), CS 133U (Intro to C), CS 133J (Java), or CIS 233B (Second course in Visual Basic).
5. OSU-bound students need 6 credits of chemistry plus 3 additional credits of science, and CH 221 and 222 will suffice for both purposes.
6. ENGR 226 may be used for OSU by Construction Engineering Management majors, but not by Civil Engineering majors.
7. WR 121 is not required for UP, but may be required for courses taken at PCC.
8. Students must take MTH 243 and MTH 244 to satisfy the ST 314 requirement at OSU. Due to the poor tradeoff in credit hours, students should consider taking ST 314 at OSU.