

PCC Civil Engineering Guide

Effective Fall 2005

| Term | Course # | Course Title | OIT | OSU | PSU | UP |
|------|---------------------|------------------------|----------|----------|----------|----------|
| 1 | ENGR 101 | Engr Fundamentals | 4 | 4 | 4 | 4 |
| | MTH 251 | Calculus I | 4 | 4 | 4 | 4 |
| | CH 221 | Chemistry | 5 | 5 | (2) 5 | 5 |
| | WR 121 | English Comp (1) | 3 | 3 | | 3 |
| | HPE 295 | Health & Fitness (1) | | 3 | | |
| | | General Education (1) | <u>3</u> | - | <u>3</u> | <u>3</u> |
| | | 19 | 19 | 19 | 19 | |
| 2 | ENGR 102 | Engr Graphics | 3 | 3 | 3 | 3 |
| | MTH 252 | Calculus II | 5 | 5 | 5 | 5 |
| | CH 222 | Chemistry | 5 | 5 | (2) 5 | 5 |
| | PHY 211 | Physics (3) | <u>5</u> | <u>5</u> | | <u>5</u> |
| | | 18 | 18 | 18 | 18 | |
| 3 | ENGR 114 | Engr Programming | 4 | 4 | | (5) 5 |
| | MTH 253 | Calculus III | 5 | 5 | 5 | |
| | PHY 213 | Physics (3) | 5 | 5 | 5 | 5 |
| | WR 122 | English Composition | | | | 3 |
| | | Biological Science (1) | | 4 | | |
| | | General Education (1) | 3 | 3 | 3 | 3 |
| | | 17 | 21 | 13 | 16 | |
| 4 | ENGR 211 | Statics | 4 | 4 | 4 | 4 |
| | ENGR 226 | Plane Surveying | 4 | | (4) 4 | 4 |
| | MTH 256 | Differential Equations | 5 | 5 | | 5 |
| | PHY 212 | Physics (3) | 5 | 5 | 5 | 5 |
| | | General Education (1) | | 6 | | |
| | | 18 | 20 | 18 | 18 | |
| 5 | ENGR 212 | Dynamics | 4 | 4 | 4 | 4 |
| | ENGR 221 | Electrical Circuits I | 5 | 5 | 5 | |
| | MTH 254 | Vector Calculus I | 5 | 5 | 5 | 5 |
| | | General Education (1) | 3 | 6 | 3 | 9 |
| | | 17 | 20 | 17 | 18 | |
| 6 | ENGR 213 | Strength of Materials | 4 | 4 | 4 | 4 |
| | MTH 261 | Linear Algebra | | 5 | | 5 |
| | SP | Speech (1) | 3 | 3 | 3 | |
| | | General Education | 9 | 3 | 6 | 6 |
| | | 16 | 15 | 13 | 15 | |
| | Total Credits Shown | 105 | 113 | 98 | 104 | |
| | Transfer Maximum | 124 | 124 | 124 | 108 | |

(#) See reverse for numbered notes

\\data\exdata\engr\civiladv05

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.

These guides are based on PCC's understanding of University requirements, but PCC makes no warranties of the accuracy of this information. Students must check with the University and Department to which they intend to transfer to obtain official information.

1. See General Education Advising Guide for Engineering Students.

Your selection of General Education courses will affect the number of credits you earn.

Writing: WR 115 must be taken prior to or concurrently with ENGR 101.
OIT: Required--WR 122 and WR 227.
OSU: Required--WR 227.
PSU: Recommended--WR 122 or 214, followed by WR 227.

UP: Required--WR 122.

Speech: OIT: Required--SP 111.
OSU: Required--SP 111 or 112.
PSU: Required. SP 111 is recommended, but SP 100 is accepted.
UP: No Speech required.

Additional general education courses may be required. See an engineering advisor.

Many PCC courses are equivalent to OSU courses, but are offered for more credit hours at PCC than at OSU.

2. OSU-bound students need 6 credits of chemistry plus 3 additional credits of science, and CH 221 and 222 will suffice for both purposes.
3. Starting Physics in the second term is recommended in order for students to meet the prerequisites of fourth term engineering courses in fall term. Physics 212 is shown in term 4, but is usually not offered fall term. It is recommended that students consider finishing the physics sequence (taking PHY 212) during summer term prior to the second year; if this is not possible, students may have to wait until term 5 to finish the physics sequence.
4. ENGR 226 may be used for OSU by Construction Engineering Management majors, but not by Civil Engineering majors.
5. For those going to UP, ENGR 114 is recommended but not required.