



ELECTRICAL ENGINEERING ADVISING GUIDE

2009 - 2010

Last revised 6/8/2009

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

PREREQUISITES

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

Course Number	Course Name	GFU	OIT	OSU ECE ⁷	PSU	UP	WSU-Yanc.	
ENGINEERING COURSES								
ENGR 101	Engr Fundamentals	4	4	4	4	4	4	Plc MTH 251; Pr/c WR 115; Dep't Approval
ENGR 171	Logic Design	5	5	5	5	5	5	Pr/c ENGR 221
ENGR 211	Statics	4	-- ⁴	4 ⁵	-- ⁴	-- ⁴	-- ⁴	MTH 252, PHY 211, ENGR 101
ENGR 212	Dynamics	4	-- ⁴	4 ⁵	-- ⁴	-- ⁴	-- ⁴	ENGR 211
ENGR 221	Electrical Circuits I	5	5	5	5	5	5	ENGR 101, MTH 252; Rec MTH 253 & PHY 213
ENGR 222	Electrical Circuits II	5	5	5	5	5	5	ENGR 221, MTH 256
ENGR 223	Signals and Systems	5	5	--	5	5	5	ENGR 222
ENGR 231	Material Science	4	--	--	--	--	--	PHY 211, MTH 252, CH 221
ENGR 299	Digital Systems	--	5	--	5	--	--	
ENGR 275	Microprocessor Syst.	--	4	4	--	4	4	ENGR 171
COMMUNICATIONS COURSES (see specific requirements on reverse)								
WR 121	English Composition	4	4	4	4	4 ⁹	4	WR 115 & RD 115 or Plc WR 121
WR 122	English Composition	--	4	--	--	--	--	WR 121
WR 227	Tech./Prof. Writing 1	--	4	4	4	--	4	WR 121
SP	Speech	4	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	5	Pr/c MTH 111B or C; Rec HS Chem. or CH 100
CH 222	General Chemistry	--	--	--	--	5	--	CH 221
PHY 211	Physics (Calculus)	5	5	5	5	5	5	Prq MTH 251, Pr/c MTH 252
PHY 212	Physics (Calculus)	5	5	5	5	5	5	PHY 211, MTH 252
PHY 213	Physics (Calculus)	5	5	5	5	5	5	PHY 211, MTH 252
CS 133U	C Programming	4	--	4	--	4	4	Rec CIS 120
CS 161	Computer Science I	--	4	4 ⁶	4	4	--	Rec: MTH 111, WR 121, CIS 160
CS 162	Computer Science II	--	--	4 ⁶	--	4	--	Rec: MTH 112, WR 121, CS 140U, CS 161
CS 260	Data Structures	--	--	--	--	4	--	Rec: CS 162 or CS 234U
MATHEMATICS COURSES								
MTH 231	Discrete Math I	--	--	4	--	--	--	MTH 111B or MTH 111C
MTH 251	Calculus I	4	4	4	4	4	4	MTH 112 or MTH 116 or CMET 131; Plc WR 121
MTH 252	Calculus II	5	5	5	5	5	5	MTH 251, Plc WR 121
MTH 253	Calculus III	5	5	5 ³	5	5	5	MTH 252, Plc WR 121
MTH 254	Vector Calculus I	5	5	5	5	5	5	MTH 253, Plc WR 121
MTH 256	Differential Equations	5	5	5	5	5	5	MTH 253, Plc WR 121
MTH 261	Linear Algebra	5 ⁸	5 ⁸	5 ³	5	5	5	MTH 253, Plc WR 121
GENERAL EDUCATION AND OTHER REQUIREMENTS								
GEN ED	General Education ¹	14	21	22	21	20	24	
HPE 295	Health & Fitness	3	--	3	--	--	--	
Total Credits Shown		114	123	133	115	122	113	
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
GFU	WR 121	SP 111 is recommended, but SP 100 is accepted
OIT	WR 121, WR 122, and WR 227	SP 111
OSU	WR 121 and WR 227	SP 111 or SP 112
PSU	WR 121; Recommended–WR 227	SP 111 is recommended, but SP 100 is accepted
UP	WR 121 ⁹	Speech is not required
WSU-V	WR 121 and WR 227	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 universities as indicated, but is a prerequisite for MTH 254, MTH 256, and MTH 261 at PCC.
3. PCC's MTH 253 + MTH 261 will be accepted as satisfying MTH 306 at OSU.
4. ENGR 211 and ENGR 212, Statics and Dynamics, are highly recommended for those planning to take the Fundamentals of Engineering exam, which is one step in becoming licensed as a Professional Engineer (PE). At OIT, these courses may satisfy the Engineering Elective requirements (requires advisor approval).
5. ENGR 211 and ENGR 212, Statics and Dynamics, are required courses for some, but not all, tracks at OSU. See also footnote 4 above.
6. CS 161 and CS 162 should be taken at the same institution, either both at PCC or both at OSU.
7. OSU offers a combined program: Electrical and Computer Engineering (ECE). Students may choose from many specialization options within this single program.
8. MTH 261 is suggested to satisfy the Math Elective at George Fox University.
9. WR 121 is not required for UP, but may be required for courses taken at PCC.