

Sample Course Schedule

Electrical Engineering with Co-op

revised 3-19-08

Year	Course	Total ch	Equivalent courses		
			* Tri-C	* Lakeland	* Lorain
Year 1 Fall	ESC 120 Intro to Engineering Design	2			
	CHM 261/266 lab	5	CHEM 1300/130L	CHEM 1500	CHMY 171
	MTH 181 Calculus I	4	MATH 1610	MATH 2500	MTHM 181
	ENG 101 English I	4	ENG 1010	ENGL 1110 or 1111	ENGL 161
	ASC 101 Orientation	<u>1</u>			
		16			
Spring	PHY 241 University Physics I	5	PHYS 2310	PHYS 2410	PHYC 251
	ENG 102 English II	3	ENG 1020	ENGL 1120 or 1121	ENGL 162
	ESC 151 C programming	3	ITMP 2670	CPET 1100 and 2100	
	MTH 182 Calculus II	4	MATH 1620	MATH 2600	MTHM 182
	CSC 121 Career Orientation	<u>1</u>			
		16			32
Summer	Work or School				
Year 2 Fall	MTH 283 Multivariable Calculus for Engineers	2	MATH 2310	MATH 2700	MTHM 281
	MTH 284 Matrices for Engineers	2	MATH 2410	MATH 2800	MTHM 280
	PHY 244 University Physics II (writing)	5	PHYS 2320	PHYS 2420	PHYC 252
	EEC 310 Electrical Circuits I	4			
	ESC 250 Diff. Equations for Engineers	<u>3</u>	MATH 2520	MATH 2850	MTHM 283
		16			48
Spring	EEC 311 Electric Circuits II	4			
	EEC 313 Electronics 1	4			
	ESC 310 Engineering Statistics and Probability	3			
	Gen Ed Elective	<u>3</u>			
		14			62
Summer	Co-op:				
	CSC300 or CSC 400	<u>1</u>			
		1			63
Year 3 Fall	EEC 314/315 Electronics II, lab	6			
	EEC 361 Electro-Mech Energy Conversion	4			
	EEC 382 Digital Systems	<u>4</u>			
		14			
Spring	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			78
Summer	Gen Ed Elective	3			
	Gen Ed Elective	3			
	ESC 282 Engr. Economy	<u>3</u>			
		9			87
Year 4 Fall	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			88
Spring	ESC 203 Statics and Dynamics	4			
	PHL 215 Engineering Ethics (writing)	3			
	EEC 470 Power Electronics	4			
	Gen Ed Elective	3			
	Gen Ed Elective	<u>3</u>			
		17			105
Summer	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			106
Year 5 Fall	EEC 440/441 Control Systems, lab	6			
	EEC 450/451 Communications, lab	6			
	EEC Tech Elective	<u>4</u>			
		16			
Spring	EEC 471 Power Electronics & Machines Lab	2			
	EEC 490 Senior Design	4			
	EEC Tech Elective	4			
	EEC Tech Elective	<u>4</u>			
		14			135

*All equivalent community college course work must be completed before transferring to CSU. Talk to your advisor for further details.