

Sample Course Schedule

**Computer Engineering with Co-op**

revised 12-21-05

Year 1	Fall	Total ch	Equivalent courses		
			* Tri-C	* Lakeland	* Lorain
	ESC 120 Intro to Engineering Design	2			
	CHM 261/266 lab General Chemistry I, 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
	Gen Ed Elective	<u>3</u>			
		18			
	Spring				
	PHY 241 University Physics I	5	PHYS 2310	PHYS 2410	PHYC 251
	CIS 260 Introduction to Programming	4	IPMT 2650	ITCS 1820 and 2820	CISS 226
	ENG 102 English II	3	ENG 1020 or 2151	ENGL 1120 or 1121	ENGL 162
	MTH 182 Calculus II	4	MATH 1620	MATH 2600	MTHM 182
	CSC 121 Career Orientation Optional (required for co-op)	<u>1</u>			
		17			
	Summer				
	Work or School				
	<b>Year 2</b>				
	Fall				
	MTH 284 Matrices for Engineers	2	MATH 2410	MATH 2800	MTHM 280
	ESC 250 Differential Equations for Engineers	3	MATH 2520	MATH 2850	MTHM 283
	PHY 242 University Physics II	5	PHYS 2320	PHYS 2420	PHYC 252
	EEC 310 Electric Circuits I	4			
	CIS 265 Data Structures and Algorithms	4	ITMP 2660	ITCS 2870	
	ASC 101 Orientation	<u>1</u>			
		19			
	Spring				
	EEC 311 Electric Circuits II	4			
	EEC 313 Electronics I	4			
	CIS 334 Fundamentals of Microcomputer Architecture	2			
	CIS 340 C/C++ for Systems Programming	2			
	ESC 310 Engineering Statistics & Probability	<u>3</u>			
		15			
	Summer				
	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			
	<b>Year 3</b>				
	Fall				
	EEC 316 Electronic Devices Lab	1			
	EEC 380 Digital Systems	4			
	CIS Architecture & OS	4			
	MTH 220 Discrete Mathematics	4	MATH 2010		MTHM 270
	Gen Ed Elective	<u>3</u>			
		16			
	Spring				
	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			
	Summer				
	ESC 282 Engineering Economy	3			
	Gen Ed Elective	3			
	Gen Ed Elective	<u>3</u>			
		9			
	<b>Year 4</b>				
	Fall				
	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			
	Spring				
	EEC 483 Computer Organization	4			
	EEC 381 Digital Systems Lab	2			
	ESC Engineering Science Elective	3			
	PHL 215 Engineering Ethics (Writing)	3			
	Gen Ed Elective	<u>3</u>			
		15			
	Summer				
	Co-op:				
	CSC 300 or CSC 400	<u>1</u>			
		1			
	<b>Year 5</b>				
	Fall				
	EEC 480 Modern Digital Design	4			
	EEC 481 Digital Systems Lab II	2			
	EEC 484 Computer Networks	4			
	EEC 485 High Performance Architecture	4			
	EEC Tech. Elective	<u>4</u>			
		18			
	Spring				
	EEC 482 Computer Engineering Lab	2			
	EEC 490 Senior Design	4			
	EEC Tech. Elective	4			
	EEC Tech. Elective	<u>4</u>			
		14			

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