Sample Course Schedule

Mechanical Engineering

revised 7-11-08

				Equivalent courses		
Year 1			**Total ch**	*** Tri-C**	*** Lakeland**	*** Lorain**
Fall	ESC 120 Into 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	1				
		16	16			
Spring	PHY 241 University Physics I	5		PHYS 2310	PHYS 2410	PHYC 251
	ESC 152 C programming with Matlab	3				
	ESC 102 Tech. Wrting & Prof. Commun.	3		ENG 1020 or 2151	ENGL 1120 or 1121	ENGL 162
	ESC 270 Materials Science	3				
	CSC 121 Career Orientation Optional (required for co-op)	1				
	MTH 182 Calculus II	4		MATH 1620	MATH 2600	MTHM 182
		19	35			
Year 2						
Fall	MTH 283 Multivariable Calculus	2		MATH 2310	MATH 2700	MTHM 281
	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
	ESC 201 Statics	3				
	IME 250/251L Material Processing, Lab	4		ITMP 2670	CIMN 1110 and 1210	
		17	52			
Spring	ESC 350 Linear Algebra & Numerical Methods in Engineering	3				
	MCE 255 Computer-Aided Engineering	4				
	ESC 202 Dynamics	3				
	ESC 211 Strength of Materials	3				
	ESC 315 Electrical Engineering Concepts	3				
		16	68			
Year 3						
Fall	MCE 305 Kinematics & Dyn. of Machinery	4				
	ESC 301 Fluid Mechanics	3				
	ESC 321 Thermodynamics I	3				
	MCE 371 Vibrations	4				
	ESC 310 Engineering Statistics & Probability	3				
		17	85			
Spring	MCE 324 Introduction to Heat Transfer	4				
	MCE 367 Machine Design I	4				
	MCE 380 Instrumentation/Measurements lab	3				
	MCE 421 Applied Thermodynamics	4				
	Gen Ed Elective	3				
		18	103			
Year 4						
Fall	MCE 450 Design Project I (writing)	2				
	ESC 282 Engineering Economy	3				
	PHL 215 Engineering Ethics (writing)	3				
	MCE 441 Intro. To Linear Control Systems	4				
	MCE Lab Elective	3				
	Gen Ed Elective	3				
		18	121			
Spring	MCE 451 Design Project II (writing)	2				
	MCE Elective	4				
	MCE Elective	4				
	Gen Ed Elective	3				
	Gen Ed Elective	3				
		16	137			

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