

Sample Course Schedule

**Civil Engineering**

Equivalent courses

Year 1		Total ch	* Tri-C	* Lakeland	* Lorain
Fall	ESC 120 Into 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
	ASC 101 Orientation	1			
		<u>16</u>	16		
Spring	PHY 241 University Physics I	5	PHYS 2310	PHYS 2410	PHYC 251
	ESC 151 C programming	3	ITMP 2670	CPET 1100 and 2100	
	ENG 102 English II	3	ENG 1020 or 2151	ENGL 1120 or 1121	ENGL 162
	CVE 211 Surveying	3			
	CSC 121 Career Orientation Optional (required for co-op)	1			
	MTH 182 Calculus II	4	MATH 1620	MATH 2600	MTHM 182
		<u>19</u>	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 210 Statics	3			
	CVE 212 Surveying Lab	2			
	Gen Ed Elective	3			
	<u>18</u>	53			
Spring	ESC 211 Strength of Materials	3			
	ESC 301 Fluid Mechanics	3			
	ESC 310 Engr. Statistics and Probability	3			
	ESC 315 or 321 EE Concepts or Thermo.	3			
	ESC 350 Linear Alg. Numer. Meth. Engr.	3			
	Gen Ed Elective	3			
		<u>18</u>	71		
Year 3 Fall	CVE 310 Strength of Materials Lab	2			
	CVE 312 Structural Analysis I	3			
	CVE 361/362 Hydraulic Engineering, lab	4			
	CVE 371 Environmental Engineering I	3			
	ESC 202 Dynamics	3			
	PHL 215 Engineering Ethics (writing)	3			
	<u>18</u>	89			
Spring	CVE 322 Structural Steel Design	3			
	CVE 331/332 Intro. To Geotechnical Engr., lab (writing)	5			
	CVE 412 Structural Analysis II	3			
	CVE 473/474 Environmental Engineering II, lab	5			
		<u>16</u>	105		
Year 4 Fall	CVE 422 Reinforced Concrete Design	3			
	CVE 426 Senior Design (writing)	1			
	ESC 282 Engineering Economy	3			
	CVE 429 Foundation Engineering	3			
	CVE Elective	3			
	Gen Ed Elective	3			
	<u>16</u>	121			
Spring	CVE Senior Design (writing)	2			
	CVE 403 Construction Planning and Estimating	3			
	CVE 446 Transportation Engineering	3			
	CVE Elective	3			
	Gen Ed Elective	3			
	Gen Ed Elective	3			
		<u>17</u>	138		

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