

Sample Course Schedule

**Chemical Engineering**

revised 5-03-07

		Equivalent courses		
Year 1	Total ch	* Tri-C	* Lakeland	* Lorain
<b>Fall</b>				
ESC 120 Into to Engineering Design	2			
CHM 261/266 General Chemistry, 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			
<b>Spring</b>				
PHY 241 University Physics I	5	PHYS 2310	PHYS 2410	PHYC 251
ENG 102 English II or MCE 102 (2 or 3 credits)	3	ENG 1020 or 2151	ENGL 1120 or 1121	ENGL 162
CHM 262/267 General Chemistry II, lab	5	CHEM 1310/131L	CHEM 1600	CHMY 172
MTH 182 Calculus II	4	MATH 1620	MATH 2600	MTHM 182
	<u>17</u>			
	17			
	33			
<b>Year 2</b>				
<b>Fall</b>				
MTH 281 or 283 Multivariable Calc. for Engr.	2	MATH 2310	MATH 2700	MTHM 281
ESC 151 (Fortran/C)	3	ITMP 2670	CPET 1100 and 2100	
PHY 242 University Physics II	5	PHYS 2320	PHYS 2420	PHYC 252
ESC 250 Diff. Equations for Engineers	3	MATH 2520	MATH 2850	MTHM 283
ESC 321 Thermodynamics I	3			
	<u>16</u>			
	16			
	49			
<b>Spring</b>				
CHE 300 Chemical Engineering Principles	4			
ESC 282 Engineering Economy	3			
ESC 301 Fluid Mechanics	3			
ESC 350 Linear Algebra and Numerical Methods	3			
Gen Ed Elective	3			
Gen Ed Elective	3			
	<u>19</u>			
	19			
	68			
<b>Year 3</b>				
<b>Fall</b>				
CHE 302 Chemical Engineering Thermo.	4			
CHE 306 Transport Phenomena	4			
ESE Elective (ESC 315 EE concepts or ESC 201 Statics)	3			
CHM 331/336 Organic Chemistry 1, Lab	6	CHEM 2300	CHEM 2500	CHMY 271
CHE 308 Junior Chem. Engr. Lab	1			
	<u>18</u>			
	18			
	86			
<b>Spring</b>				
CHE 404 Chemical Reactor Design	4			
CHE 408 Separation Processes	4			
ESC 270 Materials Science	3			
CHM 322 Physical Chemistry II	4			
PHL 215 Engineering Ethics (writing)	3			
	<u>18</u>			
	18			
	104			
<b>Year 4</b>				
<b>Fall</b>				
CHE 430 Process Control	4			
CHE 440 Process Design I (writing)	3			
Senior CHE elective	3			
Advanced Chem. Elective	4	CHEM 2310	CHEM 2600	CHMY 272
Gen Ed elective	3			
	<u>17</u>			
	17			
	121			
<b>Spring</b>				
CHE 420 Chemical Engineering Capstone Lab (writing)	4			
CHE 441 Process Design II (writing)	3			
Senior CHE Elective	3			
Gen Ed Elective	3			
Gen Ed Elective	3			
	<u>16</u>			
	16			
	137			

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