



# CHEMICAL ENGINEERING

## Curriculum Sheet

<u>Fall Semester – Year 1</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 1</u>	<u>Cr.</u>	<u>Grade</u>
ENG 100 or ENG 101 English I	3	_____	ESC 102 Technical Writing, or		
MTH 181 Calculus I	4	_____	ENG 102 English II	3	_____
CHM 261 General Chemistry I	3	_____	MTH 182 Calculus II	4	_____
CHM 266 Gen Chemistry Lab I	1	_____	PHY 241 University Physics I	5	_____
ESC 120 Intr. to Eng. Design	2	_____	CHM 262 General Chemistry II	3	_____
*ESC 100 New Student Orient.	1	_____	CHM 267 Gen Chemistry Lab II	1	_____
<sup>1</sup> see note at bottom of page	<b>14</b>			<b>16</b>	

<u>Fall Semester – Year 2</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 2</u>	<u>Cr.</u>	<u>Grade</u>
PHY 242 University Physics II	5	_____	CHE 300 Chem Eng Principles	4	_____
**ESC 130 Co-op Orientation	1	_____	General Education Elective	3	_____
ESC 152 Matlab Programming	3	_____	ESC 301 Fluid Mechanics	3	_____
MTH 283 Multiv Calc f/Eng, or MTH 281 Multiv Calculus	2	_____	ESC 270 Materials Science	3	_____
ESC 250 Diff. Eqns f/Engineers	3	_____	ESC 350 Linear Algebra f/Engrs	3	_____
ESC 321 Thermodynamics 1	3	_____	ESC 310 Engineering Statistics and Probability	3	_____
	<b>16</b>			<b>19</b>	

<u>Fall Semester – Year 3</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 3</u>	<u>Cr.</u>	<u>Grade</u>
CHE 302 Chemical Engineering Thermodynamics	4	_____	CHE 404 Chemical Reactor Design (WAC)	4	_____
CHE 306 Transport Phenomena	4	_____	CHE 408 Separation Processes	4	_____
CHE 307 Chemical Engineering Methods (WAC)	3	_____	PHL 215/213H Engineering/Env. Ethics (WAC, A&H)	3	_____
CHM 331 Organic Chemistry I	3	_____	CHM 322 Physical Chemistry II	3	_____
CHM 336 Organic Chem. Lab I	1	_____	ESC 282 Engng. Economy (SS)	3	_____
	<b>15</b>			<b>17</b>	

<u>Fall Semester – Year 4</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 4</u>	<u>Cr.</u>	<u>Grade</u>
CHE 430 Process Control	4	_____	CHE 420 Chemical Engineering Capstone Laboratory	4	_____
CHE 440 Process Design I(WAC)	3	_____	CHE 441 Process Design II	3	_____
ChBME Senior Elective	3	_____	ChBME Senior Elective	3	_____
Advanced Science Elective [See Dept/Program List]	3	_____	General Education Elective	3	_____
General Education Elective	3	_____	General Education Elective	3	_____
	<b>16</b>			<b>16</b>	

\*Not required for transfer students. \*\*Recommended for everyone (*see Co-Op Plan of Study for details*)

<sup>1</sup>Suggested if room in schedule, not required, does not count towards degree: MCE 180/181 CAE I/II, IST 203 Software Tools

**Minimum number of credits required for degree (excluding New Student and Co-Op Orientation): 128**