

CLEVELAND STATE UNIVERSITY

Name _____ I.D. No. _____

CHEMICAL ENGINEERING Curriculum Sheet revised 5-23-05

<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 101 English I	4	_____	ENG 102 English II <u>or</u>		
MTH 181 Calculus I	4	_____	MCE 102 Technical Writing (3 or 2 credits)	2-3	_____
CHM 261 General Chemistry I	4	_____	MTH 182 Calculus II	4	_____
CHM 266 General Chemistry Laboratory I	1	_____	PHY 241 University Physics I	5	_____
ESC 120 Introduction to Engineering Design***	2	_____	CHM 262 General Chemistry II	4	_____
ESC 100 New Student Orientation*	1	_____	CHM 267 General Chemistry Laboratory II	1	_____
			CSC 121 Career Orientation**	1	_____
<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	_____	ESC 301 Fluid Mechanics	3	_____
CHE 300 Chemical Engineering Principles	4	_____	ESC 315 Electrical Engineering Concepts <u>or</u>		
ESC 151 C Programming	3	_____	ESC 201 Statics	3	_____
ESC 250 Differential Equations for Engineers	3	_____	ESC 321 Thermodynamics I	3	_____
MTH 283 Multivariable Calc. for Engineers	2	_____	ESC 350 Linear Algebra and Numerical Methods in Engineering	3	_____
			Gen Ed Elective _____	3	_____
			Gen Ed Elective _____	3	_____
<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 Introduction to Reactor Design (Writing)	4	_____
CHE 306 Transport Phenomena	4	_____	CHE 408 Separation Processes	4	_____
ESC 270 Materials Science	3	_____	ESC 282 Engineering Economy	3	_____
CHE 308 Junior Chem. Engr. Lab (writing)	1	_____	CHM 322 Physical Chemistry II	4	_____
CHM 331 Organic Chem. I	4	_____	PHL 215 Engineering Ethics (Writing)	3	_____
CHM 336 Organic or Advanced Chem. Lab I	2	_____			
<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 Laboratory	4	_____
CHE 440 Process Design I (Writing)	3	_____	CHE 441 Process Design II (Writing)	3	_____
CHE Elective _____	3	_____	CHE Elective _____	3	_____
Advanced Chem. Elective _____	3	_____	Advanced Chemistry or Science Elective _____	3	_____
Gen Ed Elective _____	3	_____	Gen Ed Elective _____	3	_____
			Gen Ed Elective _____	3	_____

*Not required for transfer students.

**Optional course. Required for participation in co-op and internship programs.

***Required for freshmen and transfer students admitted to Engineering College Fall, 2003 and after.

Minimum number of credits required for degree (excluding orientation and co-op): 134