		3-YEAR DEGREE PLAN			
COLLEGE: Engineering		DEPARTMENT: Chemical and Biomedical Engineer	ing		
PROGRAM: BS of Chemical Engineering		CREDITS: 130			
		helor's program in three years. The 3-year schedule		elow provides one pathway to completion as an	ı example
based on the assumptions of specific student	preparation	. Other pathways to completion may also be available	ble.		
ASSUMPTIONS: Students admitte	ed to CSU	<i>I who place at the level of General Cher</i>	nistry I,	English I, and Calculus I or higher.	
Students will carry a full-time load	during s	ummer terms			
YEAR 1					
Fall Courses	Credits	Spring Courses	Credits	Summer Courses	Credits
ENG 100 or ENG 101 English I	3	ESC 102 Technical Writing, or		CHE 300 Chemical Engineering Principles	4
MTH 181 Calculus I	4	ENG 102 English II	3	ESC 250 Differential Equations for Engrs.	3
CHM 261 General Chemistry I	3	MTH 182 Calculus II	4	ESC 321 Thermodynamics 1	3
CHM 266 General Chemistry Laboratory I	1	ESC 152 Programming with MATLAB	3	ESC 350 Linear Algebra for Engineers	3
ESC 120 Intr. to Engineering Design	2	CHM 262 General Chemistry II	3	ESC 301 Fluid Mechanics	3
ESC 100 New Student Orientation	1	CHM 267 General Chemistry Laboratory II	1		
		PHY 241 University Physics I	5		
TOTAL	14		19		16
YEAR 2					
Fall Courses	Credits	Spring Courses	Credits	Summer Courses	Credits
CHE 302 Chemical Engr Thermodynamics	4	CHE 404 Chemical Reactor Design (Writing)	4	CHM 331 Organic Chemistry I	3
CHE 306 Transport Phenomena	4	CHE 408 Separation Processes	4	CHM 336 Organic Chemistry Lab I	2
CHE 307 Chemical Engineering		CHM 322 Physical Chemistry II	3	ESC 270 Materials Science	3
Methods (Writing)	3	PHL 215 Engineering Ethics (Writing, A&H)	3	ESC 282 Engineering Economy (SS)	3
PHY 242 University Physics II	5	MTH 283 Multivariable Calculus for Eng, or		Engineering Science Elective	3
		MTH 281 Multivariable Calculus	2 or 4	ESC 201, ESC 310, or ESC 315	
TOTAL	16		16		14
YEAR 3					
Fall Courses	Credits	Spring Courses	Credits	Summer Courses	Credits
CHE 430 Process Control	4	CHE 420 Chemical Engineering Capstone		General Education Elective (AAE)	3
CHE 440 Process Design I (Writing)	3	Laboratory	4	General Education Elective (USD)	3
CBE Senior Elective	3	CHE 441 Process Design II (Writing)	3		
Advanced Science Elective	3	CBE Senior Elective	3		
[See Department/Program List]		General Education Elective (A&H, non-US) **	3		
General Education Elective (SS, non-US) **	3				
TOTAL	16		13		6