CHEMICAL ENGINEERING

2020 – 2021 Curriculum (updated May 2020)

Student: _____
Date: _____
CUID: _____
Advisor: _____

FRESHMAN YEAR

_____	4	CH 1010 General Chemistry	_____	4	CH 1020 General Chemistry
_____	3	ENGL 1030 Composition and Rhetoric	_____	3	CHE 1300 Intro to Chemical Engineering
_____	2	ENGR 1020 Engineering Disciplines and Skills	_____	4	MATH 1080 Calculus of One Variable II
_____	4	MATH 1060 Calculus of One Variable I	_____	3	PHYS 1220 Physics with Calculus I
_____	3	Gen Ed_____	_____	3	Gen Ed_____
	16			17	

SOPHOMORE YEAR

_____	3	CH 2230 Organic Chemistry	_____	3	CH 2240 Organic Chemistry
_____	4	CHE 2110 Mass and Energy Balances	_____	1	CH 2290 Organic Chemistry Lab.
_____	4	MATH 2060 Calculus of Several Variables	_____	3	CHE 2200 Chemical Engineering Thermodynamics I
_____	3	PHYS 2210 Physics with Calculus II	_____	4	CHE 2300 Fluids/Heat Transfer
_____	3	Gen Ed_____	_____	4	MATH 2080 Int. to Ordinary Differential Equations
	17			15	

JUNIOR YEAR

_____	1	CH 3390 Physical Chemistry Lab.	_____	3	BMOL 4250 Biomolecular Engineering
_____	3	CHE 3210 Chemical Engineering Thermodynamics II	_____	3	CH 3320 Physical Chemistry
_____	4	CHE 3300 Mass Transfer and Separation Processes	_____	1	CH 3400 Physical Chemistry Lab.
_____	2	ECE 2070 Basic Electrical Engineering	_____	3	CHE 3070 Unit Operations Lab. I
_____	1	ECE 2080 Basic Electrical Engineering Lab.	_____	3	CHE 3190 Engineering Materials
_____	3	STAT 4110 Statistical Methods for Process Dev. and Control	_____	3	Gen Ed_____
_____	3	Emphasis Area Requirement _____		16	
	17				

SENIOR YEAR

_____	3	CHE 4070 Unit Operations Lab. II	_____	3	BMOL 4290 Bioprocess Engineering
_____	3	CHE 4310 Chemical Process Design I	_____	3	CHE 3530 Process Dynamics and Control
_____	2	CHE 4430 Safety, Environmental & Prof. Practice I	_____	3	CHE 4330 Process Design II
_____	3	CHE 4500 Chemical Reaction Engineering	_____	1	CHE 4440 Safety, Environ & Prof. Practice II
_____	3	Emphasis Area Requirement_____	_____	3	Emphasis Area Requirement_____
	15		_____	3	Gen Ed_____
				16	

129 Total Semester Hours

General Education Requirements						
LIT	Non-Lit	SS1	SS2	ENGR 5th	CCA	STS

- CHE 1300 is only taught in the Spring and Summer.
- CHE 2000 level classes are taught ONCE per year and NOT in the summer.

Comments: _____

Change of Major Checklist	
Required	Completed
CH 1010	
ENGL 1030	
ENGR 1020	
CHE 1300	
MATH 1060	
PHYS 1220	
GPA = 2.0; C or better required in each class	

Students should always refer to the Academic Catalog for course descriptions and for course pre-requisites, corequisites, and concurrent enrollment requirements. Academic Catalog can be found here: https://www.clemson.edu/registrar/academic-catalogs/