Chemical Engineering, Biological and Pharmaceutical Engineering B.S. Course Plan

Prepared on: 10/10/2023

Student:

Student ID:

Expected Graduation:

Completed units: 54

Course plan units: 130

Advisor:

Advisor contact:

Phone Number:

Program: CHE

Fall:

#	Course	Units	Critical
1	CHEM 105AL	4	
2	MATH 125	4	
3	WRIT 150	4	
4	GE A	4	
		16 units	

Spring:

#	Course	Units	Critical
1	CHE 120	4	
2	CHEM 105bL	4	
3	MATH 126 or 129	4	
4	GESM B	4	
		16 units	

32 units

Fall:

#	Course	Units	Critical
1	CHE 305	4	
2	CHE 330	4	
3	MATH 226 or 229	4	
4	PHYS 151L	4	
		16 units	

Spring:

#	Course	Units	Critical
1	CHE 350	4	
2	CHE 444aL	2	
3	CHEM 322aL	4	
4	MATH 245	4	
5	PHYS 152L	4	
		18 units	

34 units

Fall:

#	Course	Units	Critical
1	CHE 443	4	
2	CHE 444bL	2	
3	BISC 320 - CHEB ELECTIVE	4	
4	CHEM 430	4	
5	GE C + G	4	
		18 units	

Spring:

#	Course	Units	Critical
1	CHE 442	4	
2	CHE 444cL	2	
3	CHE 447	4	
4	BISC 330 - CHEB ELECTIVE / GE D	4	
		14 units	

32 units

Fall:

#	Course	Units	Critical
1	CHE 460L	4	
2	CHE 485L	4	
3	CHEB ELECTIVE #3	4	
4	WRIT 340	4	

Spring:

#	Course	Units	Critical
1	CHE 480	4	
2	CHEB ELECTIVE #4	4	
3	GE C	4	
4	GE B + H	4	
		16 units	

32 units

16 units

Important information, please read:

Chemical Engineering (Biological & Pharmaceutical Engineering), B.S.

Emphasis Electives (16 Units)

Required (8 units):
BISC 320L: Molecular Biology (also satisfies GE D requirement) (4 Units)
BISC 330L: Biochemistry (4 Units)

Select two of the following (8 units):

BISC 300L: Intro to Microbiology
BISC 406L: Biotechnology
BISC-451: Protein Engineering
BME 406: Intro to Biotech in Medicine
BME 410: Biomaterials and Tissue Engineering
BME 430: Systems Biology
BME 459L: Nanomedicine and Drug Discovery
CHE 475: Physical Properties of Polymers* (Substitute for CHE 489)
BPSI 402: Biopharmaceutics I
BPSI 403: Biopharmaceutics II
BPSI- 406: Drug Safety Pharmacology and Toxicology
BPSI 408: Biologics and Vaccines
RXRS 403: Neuropharmacology in Health and Disease
RXRS 407: Drug Discovery
RXRS-408: Arming the Immune System for Novel Therapies