

CHEMICAL ENGINEERING

Academic Year 2019 - 2020

FALL

SPRING

Course number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned	Course Number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned
FRESHMAN YEAR											
1101	First Year Seminar	FYS	3	C		CHE 1005	Intro to CHE Prob. Solving		1	C-	
	None						Concurrent with MATH 2200				
CHEM 1020	Gen Chem I	PN	4	C-		CHEM 1030	Gen Chem II		4	C	
	ACT 23 or concurrent enrollment in MATH 1400,1405 or 1450						CHEM 1020				
LIFE 1010	General Biology I	PN	4	D		PHYS 1210	Engr Physics I		4	C	
	Grade of C if needed as prerequisite						C in MATH 2200 Concurrent in MATH 2205				
MATH 2200	Calculus I	Q	4	C		MATH 2205	Calculus II		4	C	
	C in Math 1405 or 1450, or MPE 5, or ACT 27/SAT > 640						C or better in Math 2200 or AP credit in MATH 2200				
						ENGL 1010	College Comp & Rhetoric	COM1	3	C	
							None				
Total						Total					
15						16					
SOPHOMORE YEAR											
MATH 2210	Calculus III		4	C		MATH 2310	Differential Equations		3	C	
	C in MATH 2205						C in MATH 2205				
CHEM 2420	Organic Chemistry I		4	C		CHEM 2440	Organic Chemistry II		4	D	
	D in CHEM 1060 or CHEM 1030						D in CHEM 2420				
CHE 2005	Chem Process Analysis		3	C-		CHE 2060	Intro to CHE Computing		3	C-	
	C in MATH 2205 and C- in CHEM 1050 or CHEM 1020						C- in CHE 1005 and Concurrent in MATH 2310				
PHYS 1220	Eng. Physics II		4	D		CHE 2070	CHE Thermo I		3	C-	
	C in MATH 2200, MATH 2205, and concurrent in MATH 2210						C- in CHE 2005, PHYS 1210, and C in MATH 2210				
		COM2	3	C		CHE 2080	CHE Fluid Mechanics		3	C-	
	C in USP-COM1						C in CHE 2005, PHYS 1210, C in MATH 2210 and Concurrent in MATH 2310				
Total						Total					
18						16					
JUNIOR YEAR											
CHE 3026	Heat Transfer		3	C-		CHE 3028	Mass Transfer		3	C-	
	C- in CHE 2060 and CHE 2080/ES 2330						C- in CHE 2060 and CHE 2080/ES 2330				
CHE 3015	CHE Thermo II		3	C-		CHE 3070	Process Sim and Economics		3	C-	
	C- in CHE 2060 and CHE 2070/ES 2310						C- in CHE 3015 and CHE 3026 and Concurrent in CHE 3028				
CHE 4507	Physical Chemistry		3	D		CHE 4060	Reaction Engineering		3	C-	
	C MATH 2210, PHYS 1220, C CHEM 1060/1030						C- in CHE 3015 and CHE 3026 and Concurrent in CHE 3028				
			3	D			Human Culture	HC	3	D	
	Technical Elective						Technical Elective		3	D	
Total						Total					
15						15					
SENIOR YEAR											
CHE 3040	Unit Ops Lab I		3	C-		CHE 4050	Unit Ops Lab II		3	C-	
	C- in CHE 3026, CHE 3028, and CHE 4060						C- in CHE 3040				
CHE 4070	Process Design I		4	C-		CHE 4080	Process Design II (COM3)		4	C	
	C- in CHE 3028, CHE 3070, and CHE 4060						C- in CHE 4070 and C in COM2				
CHE 4090	Process Dynamic and Control		3	C-			US & WY Constitution	V	3	D	
	C- in CHE 3028 and CHE 4060						None				
			3	D			Technical Elective		3	D	
	Technical Elective						Technical Elective		3	D	
Total						Total					
16						16					

KEY

Fall only
Spring only
Prerequisite(s)

Note: A minimum of 48 credit hours must be upper division.

18 credits of Technical electives required (13 credits must be 3000+)

At least one Chemical Engineering Technical Elective (3 credits) is required. Additional Chemical Engineering elective courses may be used as Technical Electives. For more information, see CHE advising guide found at: <http://www.uwo.edu/chemical/undergraduate/chindex.html>

Total Program Credits: 127