

CHEMICAL ENGINEERING Practice Concentration: Co-op Begins Sophomore Spring (7 semesters)

Premises: The three-semester co-op rotation starts the spring of the sophomore year. Student is on track in the ChE curriculum. An accelerated 7-semester plan of study is pursued by taking 18 s.h. of coursework over 2 summers.

1 st year					
Fall – 17 s.h.		Spring – 16 s.h.		Summer	
CH 1211	Invst In Chemistry I	CH 1221	Chemical Eng Analysis	Pursue opportunities such as study abroad, summer internships, summer REU programs, and/or summer coursework	
CH 1213	Chemistry I	CH 1223	Invst Chemistry II		
CHE 1101	Intro to Chem & Petr Engr	CHE 2213	Chemistry II		
EN 1103	En Composition I	EN 1113	En Composition II		
MA 1713	Calculus I	MA 1723	Calculus II		
	Humanities elective	PH 2213	Physics I		
	Social Sciences elective				
2 nd year					
Fall – 16 s.h.		Spring		Summer – 9 s.h.	
CHE 2114	Mass & Energy Balances	1 st co-op semester		CHE 3113	Chem En Thermo I
CHE 3203	Fluid Flow Op			IE 3913	Engr Economy I
MA 2733	Calculus III			MA 2743	Calculus IV
	Humanities elective				
	Social Sciences elective				
3 rd year					
Fall		Spring – 15 s.h.		Summer	
2 nd co-op semester		CHE 3123	Chem En Thermo II	3 rd co-op semester	
		CHE 3213	Heat Transfer Op		
		CHE 3222	Chem Eng Lab I		
		CHE 3223	Separation Processes		
		CHE 3331	Prof Develop Seminar		
		MA 3253	Diff Equations		
4 th year					
Fall – 15 s.h.		Spring – 16 s.h.		Summer – 9 s.h.	
CHE 3232	Chem Eng Lab II	CH 4511	Org Chem Lab I	EM 2413	Engineering Mech I
CHE 4113	Chem Reactor Design	CH 4513	Organic Chemistry I	GE 3513	Technical Writing
CHE 4134	Process Design	CHE 4223	Pro Instr & Con		Fine Arts elective
	CHE or Chemistry Elective	CHE 4233	Chemical Plant Design		
	CH/CHE/Technical Elective	CHE 4633	Chemical Pro Safety		
			CHE or Chemistry Elective		
5 th year					
Fall – 15 s.h.					
CH 4523	Organic Chemistry II				
CHE 3413	Eng Materials				
PH 2223	Physics II				
	CHE or Chemistry Elective				
	CH/CHE/Technical Elective				

Note that there are many permutations of this schedule, especially in the placement of elective coursework. Please work with your assigned faculty advisor to develop a custom plan of study based on your graduation and career goals.