

## CHEMICAL ENGINEERING Practice Concentration: Co-op Begins Sophomore Spring (8 semesters)

**Premises:** The three-semester co-op rotation starts the spring of the sophomore year. Student is on track in the ChE curriculum. The normal 8-semester plan of study is pursued.

1 <sup>st</sup> 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 <sup>nd</sup> year					
Fall – 16 s.h.		Spring		Summer	
CHE 2114	Mass & Energy Balances	1 <sup>st</sup> co-op semester		Pursue opportunities such as study abroad, summer internships, summer REU programs, and/or summer coursework	
CHE 3203	Fluid Flow Op				
MA 2733	Calculus III				
	Humanities elective				
	Social Sciences elective				
3 <sup>rd</sup> year					
Fall		Spring – 15 s.h.		Summer	
2 <sup>nd</sup> co-op semester		CHE 3113	Chem En Thermo I	3 <sup>rd</sup> co-op semester	
		IE 3913	Engr Economy I		
		MA 2743	Calculus IV		
		MA 3253	Diff Equations		
			Fine Arts elective		
4 <sup>th</sup> year					
Fall – 16 s.h.		Spring – 15 s.h.		Summer	
CH 4511	Org Chem Lab I	CH 4523	Organic Chemistry II	Pursue opportunities such as study abroad, summer internships, summer REU programs, and/or summer coursework	
CH 4513	Organic Chemistry I	CHE 3213	Heat Transfer Op		
CHE 3123	Chem En Thermo II	CHE 3222	Chem Eng Lab I		
CHE 3413	Eng Materials	CHE 3223	Separation Processes		
	CHE or Chemistry Elective	CHE 3331	Prof Develop Seminar		
	CH/CHE/Technical Elective	GE 3513	Technical Writing		
5 <sup>th</sup> year					
Fall – 15 s.h.		Spring – 18 s.h.		Summer	
CHE 3232	Chem Eng Lab II	CHE 4223	Pro Instr & Con		
CHE 4113	Chem Reactor Design	CHE 4233	Chemical Plant Design		
CHE 4134	Process Design	CHE 4633	Chemical Pro Safety		
EM 2413	Engineering Mech I	PH 2223	Physics II		
	CHE or Chemistry Elective		CHE or Chemistry Elective		
			CH/CHE/Technical Elective		

Note that there are many permutations of this schedule, especially in the placement of elective coursework. In addition, fall and spring semester loads can be lightened by taking summer coursework. Please work with your assigned faculty advisor to develop a custom plan of study based on your graduation and career goals.