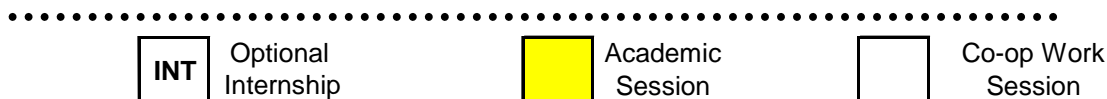


The Cooperative Education Program for Chemical and Biological Engineering

The Cooperative Education Program (Co-op Program) alternates academic terms with co-op work terms to provide students with real professional experience while completing the course requirements for the chemical and biological engineering undergraduate degree. Co-op has been termed “the ultimate scholarship” because students can earn up to \$3200/month while on work terms. The co-op coordinator, Amy Poshusta, will work with co-op students to determine a schedule of courses and work assignments (two examples shown below) that will allow them to finish all course and co-op requirements in five years. Besides the standard curriculum shown below, students may follow the curriculum plans for one of the specialty options. Students may participate in the Co-op Program after successfully completing CHEN 2120, Material and Energy Balances, in their second (sophomore) year. Students must have a minimum 2.75/4.00 GPA. A student on co-op assignment registers for CHEN 3930 (a 6 credit hour course) and pays a co-op fee of \$650 for each work session through the College of Continuing Education. Up to 24 additional credit hours are required to complete the Co-op Program. The co-op student performs his or her duties off campus at a co-op employer’s place of business. At least three co-op assignments (preferably with the same employer) must be completed to earn a Certificate of Cooperative Education upon graduation.

Year	1st			2 nd			3rd			4th			5th	
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
Example Schedules														
Schedule A			INT		1		2		3			INT		
Schedule B			INT			1		2		3		INT		



Cooperative Education Program Curriculum Schedule A & B

First Year Fall		First Year Spring		First Year Summer
Calc 1	4	Calc 2	4	Summer Internship (Optional)
Chem	5	Biol Engr	3	
Computing	3	Phys 1	4	
H&SS	3	Intro ChE	1	
		H&SS	3	
Total	-15	Total	-15	

Second Year Fall A & B		Second Year Spring A	Second Year Spring B	Second Year Summer - A	Second Year Summer - B	
Calc 3	4	1 st Co-op Assignment, CHEN 3930	LinAlgODE	4	H&SS ²	3
OChem 1	5		ChE Fluids	3	H&SS ²	3
MatEnBal ¹	3		PChem Engr	3		
Found BioE	3		Physics 2	4		
			Genetics	3		
		Gen Lab	1			
Total	15		Total	18	Total	6

Third Year Fall A	Third Year Fall B	Third Year Spring A	Third Year Spring B	Third Year Summer A & B
2 nd Co-op Assignment, CHEN 3930	AppData 3	LinAlgODE 4	2 nd Co-op Assignment, CHEN 3930	A - 3 rd Co-op Assignment, CHEN 3930
	ChE Heat Tfr 3	ChE Fluids 3		B - Courses
	ChE Thermo 3	PChem Engr 3		
	OChem 2 5	Physics 2 4		
	Phys Lab 1	Genetics 3		
	Genetics Lab 1			H&SS ² 3
				H&SS ² 3
	—	—		—
	Total 18	Total 18		Total 6

Fourth Year Fall A	Fourth Year Fall B	Fourth Year Spring A	Fourth Year Spring B	Fourth Year Summer A & B
AppData 3	3 rd Co-op Assign- ment, CHEN 3930	ChE Lab 1 2	ChE Lab 1 2	4 th Co-op Assignment, CHEN 3930
ChE Heat Tfr 3		Biokinetics 3	Biokinetics 3	
ChE Thermo 3		Biosep 3	Biosep 3	
OChem 2 5		Biochem 3	Biochem 1	
Phys Lab 1			Biomatls 3	
—		—	—	
Total 15		Total 11	Total 12	

Fifth Year Fall A & B		Fifth Year Spring A & B	
Design 3		Design Proj 2	
ChE Lab 2 2		Control 4	
Bioprocess or Elective 3		Pharm Bio 3	
Elective 3		Elective 3	
WRTG 3		H&SS 3	
Sr Seminar 1			
—		—	
Total 15		Total 15	

¹ All students must successfully complete this course to participate in the Co-op Program.

² Suggested summer courses. Students can also complete required courses offered in the summer. Some alternatives include Organic Chemistry 2 and Physical Chemistry 1, which usually are offered in complementary summer sessions.

³ These courses will be taught in alternating years and should be taken in the junior or senior year as available.