Sample Curriculum* for
BS in Chemical and Biological Engineering/MS in Chemical Engineering

Year 3:

Junior Fall			Junior Spring		
ChE Thermo	CHEN 3320	3	Biokinetics	CHEN 4330	3
AppData	CHEN 3010	3	Chemical Separations/MT	CHEN 3220	3
ChE Heat Tfr	CHEN 3210	3	ChE Lab 1	CHEN 3130	2
Elective		4	Biomaterials	CHEN 4805	3
WRTG	WRTG 3030	3	Biochemistry	CHEM 4611	3
			H&SS		3
Total Credit Hours		16	Total Credit Hours		17

Year 4:

Senior Fall			Senior Spring		
CBEN Lab 2	CHEN 4130	2	Design Proj	CHEN 4530	2
Sr. Seminar	CHEN 4090	1	Control	CHEN 4570	4
Design	CHEN 4520	3	Focus Tech	CHEN 4---	3
Bioseparations	CHEN 4800	3	Graduate Elective[1,2]	5000+	3
Graduate Elective[1,2]	5000+	3	H&SS		3
Tech Elective		3			
Total Credit Hours		15	Total Credit Hours		15

Year 5:

Fall			Spring		
Analytical Methods	CHEN 5740	3	Transport Phenomena	CHEN 5210	4
Thermodynamics or Reaction Engineering	CHEN 5370 or 5390	3	Graduate Elective[1]		2
Graduate Seminar[4]	CHEN 5090	1	Graduate Elective[1,5]	5000+	3
Elective[3]		3	Elective[3]		3
Graduate Elective[1,5]	5000+	3			
Total Credit Hours		13	Total Credit Hours		12

*There are different permeations for the concurrent BS/MS curriculum. Students in this program will be advised to meet with the BS/MS advisor to devise a curriculum that best suits them.

[1]A total of 5 credit hours of graduate electives must be Chemical and Biological Engineering courses;

[2]These 6 credit hours of graduate electives count towards technical elective for undergraduate degree;

[3]A maximum of 6 credit hours of courses at the 3000 level and above in another department may count towards the MS degree;

[4]This required course is pass/fail and does not count towards the 30 credit hours for the MS degree;

[5]For students in the thesis option, the graduate elective should be replaced with 3 credits of MS thesis.

Sample Curriculum* for
BS in Chemical Engineering/MS in Chemical Engineering

Year 3:

Junior Fall			Junior Spring		
ChE Thermo	CHEN 3320	3	Kinetics	CHEN 4330	3
AppData	CHEN 3010	3	Chemical Separations/MT	CHEN 3220	3
ChE Heat Tfr	CHEN 3210	3	ChE Lab 1	CHEN 3130	2
Elective		4	Advanced ChemElect		3
WRTG	WRTG 3030	3	Elective		3
			H&SS		3
Total Credit Hours		16	Total Credit Hours		17

Year 4:

Senior Fall			Senior Spring		
CHEN Lab 2	CHEN 4130	2	Design Proj	CHEN 4530	2
Sr. Seminar	CHEN 4090	1	Control	CHEN 4570	4
Design	CHEN 4520	3	ChE Materials	CHEN 4440	3
Elective		3	Elective		3
H&SS		3	Graduate Elective[1,2]	5000+	3
Graduate Elective[1,2]	5000+	3			
Total Credit Hours		15	Total Credit Hours		15

Year 5:

Fall			Spring		
Analytical Methods	CHEN 5740	3	Transport Phenomena	CHEN 5210	4
Thermodynamics or Reaction Engineering	CHEN 5370 or 5390	3	Graduate Elective[1]	5000+	2
Graduate Seminar[4]	CHEN 5090	1	Graduate Elective[1, 5]	5000+	3
Elective[3]		3	Elective[3]		3
Graduate Elective[1, 5]	5000+	3			
Total Credit Hours		13	Total Credit Hours		12

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