CHEMICAL ENGINEERING
CURRICULUM

Fall Term					Spring Term				
First Year									
	EGGG	101	Introduction to Engineering (FYE)	2		CHEG	112	Introduction to Chemical Engineering	3
	CHEM	111	General Chemistry	3		CHEM	112	General Chemistry	3
	MATH	242	Analytic Geometry & Calculus B	4		MATH	243	Analytic Geometry & Calculus C	4
	CISC	106	General Computer Science for Engineers	3		PHYS	207	Fundamentals of Physics I	4
	ENGL	110	Critical Reading and Writing	3				Breadth Requirement Elective 1	3
				15					17
Second Year									
	CHEG	231	Chemical Engineering Thermodynamics	3		CHEG	325	Chemical Engineering Thermodynamics	3
	CHEM	220	Quantitative Analysis	3		CHEG	304	Random Variability in Chemical Processes	3
	CHEM	221	Quantitative Analysis Laboratory	1		CHEM	444	Physical Chemistry	3
	PHYS	208	Fundamentals of Physics II	4		CHEM	445	Physical Chemistry Laboratory (a)	0/1
	MSEG	302	Materials Science for Engineers	3		MATH	305	Applied Math for Chemical Engineering	3
			Breadth Requirement Elective 2	3				Breadth Requirement Elective 3	3
				17					15/16
Third Year									
	CHEG	332	Chemical Engineering Kinetics	3		CHEG	342	Heat and Mass Transfer	3
	CHEG	341	Fluid Mechanics	3		CHEG	345	Chemical Engineering Laboratory I	3
	CHEM	331	Organic Chemistry I	3		CHEM	332	Organic Chemistry (b) or	3
	CHEM	333	Organic Chemistry Laboratory	1/2		CHEM	527	Introduction to Biochemistry	
			Technical Elective 1	3				Breadth Requirement Elective 4	3
			Technical Elective 2	3				CHEG Elective 1	3
				16/17					15
Fourth Year									
	CHEG	431	Chemical Process Design 1	3		CHEG	432	Chemical Process Design 2 (DLE)	3
	CHEG	401	Chemical Process Dynamics and Control	3				CHEG Elective 3	3
	CHEG	445	Chemical Engineering Laboratory II	3				Technical Elective 3	3
			CHEG Elective 2	3				Technical Elective 4 or CHEG Elective 4	3
			Breadth Requirement Elective 5	3				Breadth Requirement Elective 6	3
				15					15

Total Credit Hours 126

(a) If CHEM 333 is taken for two credits, CHEM 445 is not required.

(b) CHEM 332 or CHEM 527 may be taken. If CHEM 527 is not taken, the BISC requirement must be met using BISC 207 or another approved course.