

Year 1	Fall Semester		Year 1	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
CHEM 103	Gen. Chem. I (fa only, Core 1)	4	CHEM 104	Gen. Chem. II (sp only, Core 5)	4
MATH 205	Calculus I (fa only, Core 2)	5	MATH 206	Calculus II (sp only)	5
ENG 101	Composition I (Core 3)	3	ENG 102	Composition II (Core 6)	3
CORE/CCI*	Inst. Requirement (Core 4)	3	CORE	Inst. Requirement (Core 7)	3
	TOTAL	15		TOTAL	15

Year 2	Fall Semester		Year 2	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
CHEM 307	Organic Chem I (fa only)	3	CHEM 308	Organic Chem II (sp only)	3
CHEM 307L	Organic Chem I Lab (fa only)	1	CHEM 308L	Organic Chem II Lab (sp only)	1
PHYS 205	University Physics (fa only)	5	PHYS 206	University Physics (sp only)	5
CORE	Inst. Requirement (Core 8)	3	CORE	Inst. Requirement (Core 10)	3
CORE	Inst. Requirement (Core 9)	3	ELECTIVE	General Elective	3
	TOTAL	15		TOTAL	15

Year 3	Fall Semester		Year 3	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
CHEM 411/411L	Quantum Mechanics w. lab (fa odd) or CHEM elective (ACS = CHEM 429/429L Biochem, fa only)	3-4	CHEM 412/412L	Thermodynamics w. lab (sp even) or CHEM elective (ACS = CHEM 420 Inst. Analysis, sp only)	3-4
CHEM 320	Quantitative Analysis (fa only)	4	SCIENCE	Science Elective if needed*** (ACS = CHEM 416 Adv. Inorg., sp even)	0-4
MATH**	MATH 305** (Calc. III, fa only) or Inst. Requirement (Core 11)	3-4	CORE	Inst. Requirement (Core 11) or MATH 307** (Linear Alg., sp only)	3
ELECTIVE	General Electives as needed to fulfill required credit hrs	3-6	CORE	Inst. Requirement (Core 12)	3
			ELECTIVE	General Electives as needed to fulfill required credit hrs	0-6
	TOTAL	13-18		TOTAL	15-18

Year 4	Fall Semester		Year 4	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
CHEM 4XX	CHEM elective (ACS = CHEM 429/429L Biochem., fa only) or CHEM 411/411L (fa odd)	3-4	CHEM 4XX	CHEM elective (ACS = CHEM 420, Inst. Analysis, sp only) or CHEM 412/412L (sp even)	3-4
CHEM	CHEM Elective (ACS = CHEM 4XX) or General Electives as needed to fulfill req. credit hrs	3-6	SCIENCE	Science Elective if needed*** (ACS = CHEM 416 Adv. Inorg., sp even)	0-4
CORE	Inst. Requirement (Core 13)	3	CORE	Inst. Requirement (Core 15)	3
CORE	Inst. Requirement (Core 14)	3	ELECTIVES	General Electives as needed to fulfill required credit hrs	1-6
	TOTAL	12-16		TOTAL	12-17

**The Critical Cultural Inquiry (CCI) requirement can be completed by either one value-added foreign language course, an approved study-away or study abroad experience, or one CCI course. One slot should be allotted for CORE/CCI, but students completing the requirement with study abroad, can substitute an elective if necessary to reach 120 hours. If students are continuing a language study, it is preferable to take the course during the first semester of the first year.*

***Math: MATH 205/206 and either MATH 305 or 307 are required for major*

****Science elective: For the Chemistry major, another 400-level CHEM, GEOL or BIO or 300-level MATH or PHYS should be taken if needed to reach at least 60 hrs in major. The ACS-certified degree requires CHEM 416, 420, 429, 429L + 3 additional hrs at 400-level including CHEM 497; GEOL 403 may substitute as a 400-level Chemistry elective (by permission).*

Students planning to attend graduate school should plan on conducting an independent research project (CHEM 497) or participate in a summer research program or internship. Develop a plan for this with your academic adviser.