

Checklist of Courses for Non-ACS Certified Major

done	Course Number	Title	Recommended Timing
	Chem 103	General Chemistry	Fall 1 st year
	Chem 104	General Chemistry	Spring 1 st year
	Chem 105 (instead of 103-104)	Accelerated General	Fall 1 st year
	Chem 205	Quantitative Analysis	Spring 1 st or 2 nd year
	Chem 221	Organic	Fall 2 nd year
	Chem 222	Organic	Spring 2 nd year
	Chem 341	Microscopic Physical	Fall 3 rd year
	Chem 351	Adv. Organic Lab	Fall 3 rd year
	Chem 342	Biophysical	Spring 3 rd year
	Chem 352	Physical & Inorganic Lab	Spring 3 rd year
	Chem 489 (.5 unit)	Senior Research	Fall 4 th year
	Chem 490 (.5 unit)	Senior Research	Spring 4 th year
	Math 135	Calculus 1	1 st or 2 nd year
	Math 136	Calculus 2	1 st of 2 nd year
	Physics 103 or 151	College/Univ. Physics	Fall 2 nd year
	Physics 104 or 152	College/Univ. Physics	Spring 2 nd year

Notes: Chem 104 or 105 must be passed with a grade of 2.0 or higher to fulfill prerequisites for upper level work in the department. Chem 221 must be passed with a grade of 2.0 or higher to advance into Chem 222.

Students planning on study abroad during the junior year will typically move those chemistry courses missed into the corresponding semester(s) of the senior year.

Checklist of Courses for ACS Certified Major (rec. for those who intend graduate level work in chemistry or related disciplines)

done	Course Number	Title	Recommended Timing
	Chem 103	General Chemistry	Fall 1 st year
	Chem 104	General Chemistry	Spring 1 st year
	Chem 105 (instead of 103-104)	Accelerated General	Fall 1 st year
	Chem 205	Quantitative Analysis	Spring 1 st or 2 nd year
	Chem 221	Organic	Fall 2 nd year
	Chem 222	Organic	Spring 2 nd year
	Chem 341	Microscopic Physical	Fall 3 rd year
	Chem 351	Adv. Organic Lab	Fall 3 rd year
	Chem 342	Biophysical	Spring 3 rd year
	Chem 352	Physical & Inorganic Lab	Spring 3 rd year
	Chem 489 (.5 unit)	Senior Research	Fall 4 th year
	Chem 490 (.5 unit)	Senior Research	Spring 4 th year
	Chem 403	Inorganic	Fall 4 th year
	Chem 452	Instrumental Analysis	Fall 4 th year
	Math 135	Calculus 1	1 st or 2 nd year
	Math 136	Calculus 2	1 st or 2 nd year
	Physics 151	Univ. Physics	Fall 2 nd year
	Physics 152	Univ. Physics	Spring 2 nd year

Notes: Chem 104 or 105 must be passed with a grade of 2.0 or higher to fulfill prerequisites for upper level work in the department. Chem 221 must be passed with a grade of 2.0 or higher to advance into Chem 222.

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ACS requires calculus-based physics