

# CHEMISTRY MAJOR

Students majoring in chemistry must satisfy the general requirements of the B.S. curriculum as well as the required courses in Chemistry. Elective courses may be selected from the list of Chemistry courses above the 1000-level. Alternatively, students may petition the Chemistry Department for approval of other (non-Chemistry) courses. If the course is not from Chemistry, it must be a course where the methods or concepts are relevant to chemistry. Students intending to pursue graduate work in chemistry or in an allied interdisciplinary graduate program are advised to select advanced chemistry courses, including 4010 and/or 4020. Close consultation with their department advisors will help to assure development of a program that can be recommended for graduate work.

The Department of Chemistry is fully accredited by the Committee on Professional Training of the American Chemical Society.

As an alternative to a traditional chemistry major, students can consider a major in Biological Chemistry (<https://catalog.tulane.edu/science-engineering/biological-chemistry-program/biological-chemistry-major/>) (<https://catalog.tulane.edu/science-engineering/biological-chemistry-program/biological-chemistry-major/>). This program is certified by the American Society of Biochemistry and Molecular Biology (ASBMB).

## Requirements

Students majoring in chemistry must satisfy the general requirements of the B.S. curriculum.

Course ID	Title	Credits
<b>Required Courses</b>		
CHEM 1070 & CHEM 1075	General Chemistry I and General Chemistry Lab I	4
CHEM 1080 & CHEM 1085	General Chemistry II and General Chemistry Lab II	4
CHEM 3110 & CHEM 3115	Physical Chemistry I and Physical Chemistry Lab I	4
CHEM 3120 & CHEM 3125	Physical Chemistry II and Physical Chemistry Lab II	4
MATH 1210	Calculus I	4
MATH 1220	Calculus II	4
MATH 2210	Calculus III	4
MATH 2240	Intro To Applied Math	4
PHYS 1310 & PHYS 1320	General Physics I and General Physics II	8
<b>Select one of the following:</b>		
CHEM 2410 & CHEM 2415	Organic Chemistry I and Organic Chemistry Lab I	4
CHEM 2430 & CHEM 2435	Organic Chemistry I: Deep-learning and Organic Chemistry I Laboratory: Deep-learning	4
<b>Select one of the following:</b>		
CHEM 2420 & CHEM 2425	Organic Chemistry II and Organic Chemistry Lab II	4
CHEM 2440 & CHEM 2445	Organic Chemistry II: Deep-learning and Organic Chemistry Laboratory II: Deep-learning	4
<b>Select one of the following:</b>		
CHEM 3210 & CHEM 3215	Inorganic Chemistry and Inorganic Chemistry Lab	4
CHEM 3310 & CHEM 3315	Instrumental Analysis and Instrumental Analysis Lab	4
<b>Electives *</b>		
Select three or more elective courses from the Chemistry list of courses or with significant chemistry relevance.		9
<b>Total Credit Hours</b>		<b>69</b>

\* In order to complete the major, three additional, three-credit courses from the list of Chemistry courses above the 1000-level are required. Check with the Chemistry Department for approval of other (non-Chemistry) courses. If the course is not from Chemistry, it must be a course where the methods

or concepts are relevant to chemistry. Many courses offered by Math or Physics and Engineering Physics would be appropriate, as well as some in departments such as Cell and Molecular Biology, Computer Science, and others.

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