

CHEMISTRY PRE-MAJOR

Department Chair: Chad Landrie, 847-376-7439, clandrie@oakton.edu

The following pre-major is recommended for students who are considering completing a Bachelor's degree in Chemistry after transferring to a four-year institution. It is designed for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to consult the Office of Advising, Transitions, and Student Success and the transfer institution's catalog to select courses that will meet both Oakton and transfer institution requirements.

For more information on course selection or program-specific advising, contact the department chair. Part time students should also consult the Office of Advising, Transition, and Student Success for part-time pre-major recommendations. **General Education courses should be selected from the list of IAI General Education Courses.**

Course	Title	Hours
First Year		
Semester One		
EGL 101	Composition I	3
CHM 121	General College Chemistry I	4
BIO 121	General College Biology I	4
MAT 250	Calculus I	5
Hours		16
Semester Two		
EGL 102	Composition II	3
SPE 103	Effective Speech	3
MAT 251	Calculus II	4
CHM 122	General College Chemistry II	4
Select one Social and Behavioral Sciences course ¹		3
Hours		17
Second Year		
Semester One		
PHY 221	General Physics I	5
Select one of the following:		4-5
CHM 221	Organic Chemistry I ^{2,3}	
CHM 223	Organic Chemistry I ⁴	
Select one Social and Behavioral Sciences course from a discipline not taken previously ¹		3
Select one Modern Language (202 ⁵ or higher) or Humanities course ¹		3-4
Hours		15-17
Semester Two		
PHY 222	General Physics II	5
Select one of the following:		4-5
CHM 222	Organic Chemistry II ^{2,3}	
CHM 224	Organic Chemistry II ⁴	
Select one Fine Arts course ¹		3
Select one of the following:		3-4
BIO 122	General College Biology II	
CHM 229	Biochemistry	
CHM/BIO 240	Interdisciplinary Undergraduate Laboratory Research ²	
MAT 252	Calculus III	
MAT 260	Introduction to Linear Algebra	
MAT 262	Ordinary Differential Equations	
CSC 170	Introduction to Numerical Methods ⁶	
Hours		15-17
Total Hours		63-67

- ¹ When choosing Social and Behavioral Studies and Humanities/Fine Arts courses, please select at least one course that also satisfies Global Studies requirement and one course that also satisfies the U.S. Diversity requirement.
- ² Students who took CHM 221 Organic Chemistry I and CHM 222 Organic Chemistry II, and choose CHM 240 Interdisciplinary Undergraduate Laboratory Research, may need to take an additional course to meet 60-credit-hour minimum for degree completion.
- ³ Typically offered in summer.
- ⁴ Typically offered in fall and spring.
- ⁵ Transfer institutions may have a language requirement. Any Modern Language Intermediate II course can meet the Humanities and Global Studies requirements.
- ⁶ If CSC 170 Introduction to Numerical Methods is selected, concurrent enrollment in one of the following courses is required: CSC 171 C++ Programming for Engineers, CSC 172 FORTRAN Programming for Engineers, or CSC 173 Java Programming for Engineers.

Note: Pre-major is a recommended sequence and selection of courses. See Associate in Science (A.S.) page for degree requirements.