

CHEMISTRY PRE-MAJOR

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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.**

First Year		Hours
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		Hours
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		Hours
Semester One		
PHY 221	General Physics I	5
Select one of the following:		4-5
CHM 221	Organic Chemistry I ²	
CHM 223	Organic Chemistry I ³	
Select one Social and Behavioral Sciences course from a discipline not taken previously ¹		3
Select one Modern Language (202 ⁴ or higher) or Humanities course ¹		3-4
Hours		15-17

Semester Two		Hours
PHY 222	General Physics II	5
Select one of the following:		4-5
CHM 222	Organic Chemistry II ²	
CHM 224	Organic Chemistry II ³	
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	
CSC 170 & CSC 171	Introduction to Numerical Methods and C++ Programming for Engineers	
CSC 170 & CSC 173	Introduction to Numerical Methods and Java Programming for Engineers	
CSC 170 & CSC 174	Introduction to Numerical Methods and Python Programming for Engineers	
MAT 252	Calculus III	
MAT 260	Introduction to Linear Algebra	

MAT 262	Ordinary Differential Equations	
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 Typically offered in summer.
- ³ Typically offered in fall and spring.
- ⁴ Transfer institutions may have a language requirement. Any Modern Language Intermediate II course can meet the Humanities and Global Studies requirements.

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