

# University of Cincinnati Chemistry Bachelor of Science

Effective beginning Academic Year 2023-24 (Last revised April 24, 2024)

The following table outlines how transfer credits will be applied to the Bachelor of Science in Chemistry degree at University of Cincinnati for students who completed an Associate of Science degree via the Ohio Guaranteed Chemistry Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

| COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE                                                                                                                                                                                                                                                                                                                                                                                 | Course Number                 | Credit Hours |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36</b>                                                                                                                                                                                                                                                                                                                                                                         |                               |              |
| Any Ohio Transfer 36 approved First Writing (TME001) course                                                                                                                                                                                                                                                                                                                                                                    | ENGL1001                      | 3            |
| Calculus I (TMM005)                                                                                                                                                                                                                                                                                                                                                                                                            | MATH1061                      | 4            |
| Any Ohio Transfer 36 approved Arts and Humanities course                                                                                                                                                                                                                                                                                                                                                                       | Ohio Transfer 36 Elective*    | 3            |
| Any Ohio Transfer 36 approved Arts and Humanities course                                                                                                                                                                                                                                                                                                                                                                       | Ohio Transfer 36 Elective*    | 3            |
| Any Ohio Transfer 36 approved Social and Behavioral Sciences course                                                                                                                                                                                                                                                                                                                                                            | Ohio Transfer 36 Elective*    | 3            |
| Any Ohio Transfer 36 approved Social and Behavioral Sciences course                                                                                                                                                                                                                                                                                                                                                            | Ohio Transfer 36 Elective*    | 3            |
| General Chemistry I with lab (OSC008)                                                                                                                                                                                                                                                                                                                                                                                          | CHEM1040/1040L                | 5            |
| General Chemistry II with lab (OSC009)                                                                                                                                                                                                                                                                                                                                                                                         | CHEM1041/1041L                | 5            |
| Any Ohio Transfer 36 approved Second Writing (TME002) course                                                                                                                                                                                                                                                                                                                                                                   | ENGL2089                      | 3            |
| Calculus II (TMM006)                                                                                                                                                                                                                                                                                                                                                                                                           | MATH1062                      | 4            |
| Up to 3-4 additional hours of Ohio Transfer 36 approved courses                                                                                                                                                                                                                                                                                                                                                                | Ohio Transfer 36 Electives*   | 0            |
| <b>PRE-MAJOR/BEGINNING MAJOR</b>                                                                                                                                                                                                                                                                                                                                                                                               |                               |              |
| Calculus-based Physics I with lab (OSC016)                                                                                                                                                                                                                                                                                                                                                                                     | PHYS2001/2001L                | 5            |
| Calculus-based Physics II with lab (OSC017)                                                                                                                                                                                                                                                                                                                                                                                    | PHYS2002/2002L                | 5            |
| Full-Year Sequence of Organic Chemistry with lab (OSC010)                                                                                                                                                                                                                                                                                                                                                                      | CHEM2040/2040L/<br>2041/2041L | 10           |
| <b>OTHER RECOMMENDATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                   |                               |              |
| General Electives as needed (May include FYE or Orientation course) <sup>1</sup>                                                                                                                                                                                                                                                                                                                                               | Varies*                       | 0-6          |
| <b>TOTAL HOURS FROM ASSOCIATE DEGREE:</b>                                                                                                                                                                                                                                                                                                                                                                                      |                               | <b>60-65</b> |
| Advising Notes:<br>(*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded.<br><sup>1</sup> University of Cincinnati requires foreign language and strongly recommends students take the first two semesters of foreign language during the associate degree program. |                               |              |

## SPECIAL NOTES

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

# University of Cincinnati Chemistry Bachelor of Science

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The following additional coursework will be required to complete the Bachelor of Science in Chemistry degree at University of Cincinnati after a student has completed their Associate of Science Ohio Guaranteed Chemistry Transfer Pathway degree. Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

| REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE                                                                                                                                                                                                                                                                    |                                                                 | Course Number                            | Credit Hours |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------|--------------|
| College Core Requirement:                                                                                                                                                                                                                                                                                             | Foreign Language (if not taken as part of the associate degree) | Varies                                   | 10-12        |
| College Core Requirement:                                                                                                                                                                                                                                                                                             | Historical Perspective BoK (one from HIST discipline)           | Varies                                   | 6            |
| College Core Requirement:                                                                                                                                                                                                                                                                                             | Contemporary Topics BoK                                         | Varies                                   | 3            |
| College Core Requirement:                                                                                                                                                                                                                                                                                             | Experiential Learning                                           | Varies                                   | 0            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Sophomore Seminar for Chemistry Majors                          | CHEM2080                                 | 1            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Analytical Chemistry                                            | CHEM2050                                 | 3            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Survey of Physical Chemistry                                    | CHEM3010                                 | 3            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Introduction to Biochemistry                                    | CHEM3040                                 | 3            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Senior Seminar for Chemistry Majors                             | CHEM5080                                 | 1            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Inorganic Chemistry                                             | CHEM4020                                 | 3            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Elective Laboratory Course                                      | CHEM3021L, 3030L, 3045L, 3046L, or 4020L | 2            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Elective Lecture Course                                         | CHEM3021, 3030, 4040, 4041, or 4054      | 3            |
| Major Requirement:                                                                                                                                                                                                                                                                                                    | Chemistry Capstone                                              | CHEM5021 or 5030                         | 2            |
| Free Electives:                                                                                                                                                                                                                                                                                                       | Electives                                                       | Varies                                   | 20           |
| REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL: <sup>1</sup>                                                                                                                                                                                                                                                |                                                                 |                                          | 60-62        |
| Advising Notes:<br><sup>1</sup> University of Cincinnati requires a total of 120 credit hours for degree completion. The total number of hours to complete a bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program. |                                                                 |                                          |              |

| COMPLETE BACHELOR'S DEGREE | Total Credit Hours |
|----------------------------|--------------------|
| BACHELOR'S DEGREE TOTAL:   | 120                |

| SPECIAL NOTES                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For more information, please contact:<br>Transfer Center<br><a href="mailto:transfer@uc.edu">transfer@uc.edu</a><br>513-556-1100<br><a href="https://admissions.uc.edu/information/transfer">admissions.uc.edu/information/transfer</a> |

University of Cincinnati  
**Chemistry**  
**Bachelor of Science**

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**SAMPLE DEGREE MAP**

**THIRD YEAR**

| SEMESTER 5                                      |              | SEMESTER 6                            |              |
|-------------------------------------------------|--------------|---------------------------------------|--------------|
| Course Name & Number                            | Credit Hours | Course Name & Number                  | Credit Hours |
| CHEM2080 Sophomore Seminar for Chemistry Majors | 1            | CHEM3040 Introduction to Biochemistry | 3            |
| CHEM3010 Survey of Physical Chemistry           | 3            | CHEM2050 Analytical Chemistry         | 3            |
| Foreign Language                                | 5            | Foreign Language                      | 5            |
| Historical Perspective BoK (HIST discipline)    | 3            | Historical Perspective BoK            | 3            |
| Contemporary Topics BoK                         | 3            | Experiential Learning                 | 0            |
|                                                 |              | Elective                              | 2            |
| Total Semester 5 Credit Hours                   | 15           | Total Semester 6 Credit Hours         | 16           |

**FOURTH YEAR**

| SEMESTER 7                                   |              | SEMESTER 8                              |              |
|----------------------------------------------|--------------|-----------------------------------------|--------------|
| Course Name & Number                         | Credit Hours | Course Name & Number                    | Credit Hours |
| CHEM5080 Senior Seminar for Chemistry Majors | 1            | CHEM5021 or CHEM5030 Chemistry Capstone | 2            |
| CHEM4020 Inorganic Chemistry                 | 3            | Elective                                | 3            |
| Elective                                     | 3            | Chemistry Elective Lecture Course       | 3            |
| Elective                                     | 3            | Chemistry Elective Laboratory Course    | 2            |
| Elective                                     | 3            | Elective                                | 3            |
| Elective                                     | 1            | Elective                                | 2            |
| Total Semester 7 Credit Hours                | 14           | Total Semester 8 Credit Hours           | 15           |