

McMicken College of Arts & Sciences

Area Name: 3-year degree option BA Chemistry (Biological Chemistry Concentration)

Fall Year 1

| | | |
|------------|------------------------------|----------|
| CHEM1040 | General Chemistry I (NS) | 4 |
| CHEM1040L | General Chemistry Lab I (NS) | 1 |
| MATH1044 | Applied Calculus I (QR) | 3 |
| BIOL 1081 | Biology I (NS) | 3 |
| BIOL 1081L | BIOL I Laboratory (NS) | 1 |
| ENGL1001 | English Composition (EC) | 3 |
| | | |

Credit total **15**

Spring Year 1

| | | |
|------------|--|----------|
| CHEM1041 | General Chemistry II (NS) | 4 |
| CHEM1041L | General Chemistry Lab II (NS) | 1 |
| MATH1045 | Applied Calculus II (QR) | 3 |
| BIOL 1082 | Biology II (NS) | 3 |
| BIOL 1081L | BIOL I Laboratory (NS) | 1 |
| | Freshman Seminar (if admitted as freshman) | 3 |
| | | |

Credit total **15**

Summer Year 1* (see additional options, below)

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|--|-------------------------------------|----------|
| | Foreign Language Requirement | 5 |
| | Social Science Course (SS) | 3 |
| | Historical Perspective Course (HP) | 3 |
| | Humanities, Literature or Fine Arts | 3 |
| | | |
| | | |

Credit Total **14**

Fall Year 2

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|-----------|--|----------|
| CHEM2040 | Organic Chemistry I | 4 |
| CHEM2040L | Organic Chemistry Lab I | 1 |
| CHEM2080 | Sophomore Seminar for Chemistry Majors | 1 |
| ----- | Foreign Language Requirement | 5 |
| PHYS1051 | General Physics I (algebra-based) | 4 |
| PHYS1051L | General Physical Laboratory I | 1 |
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Credit total **16**

Spring Year 2

| | | |
|-----------|--|----------|
| CHEM2041 | Organic Chemistry II | 4 |
| CHEM2041L | Organic Chemistry Lab II* | 1 |
| CHEM2050 | Analytical Chemistry | 3 |
| PHYS1052 | General Physics II (algebra-based) | 4 |
| PHYS1052L | General Physics Laboratory II | 1 |
| | Social & Ethical Issues or Technology & Innovation Course (SE or TI) | 3 |
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Credit total **16**

Summer Year 2

| | | |
|-----------|------------------------------|----------|
| CHEM3040 | Introduction to Biochemistry | 3 |
| ENGL2089 | Intermediate Composition | 3 |
| | Interdisciplinary Course | 3 |
| BIOL2081C | Genetics and Cell Biology | 4 |
| | Free Electives | 3 |
| | | |
| | | |

Credit Total **16**

Fall Year 3

| | | |
|----------|------------------------------|----------|
| CHEM3010 | Survey of Physical Chemistry | 3 |
| CHEM4040 | Molecules of Life | 3 |
| CHEM5080 | Senior Seminar | 1 |
| | Free Electives | 5 |
| | Humanities Course (HU) | 3 |
| | | |
| | | |

Credit total **15**

Spring Year 3

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|-----------|---|----------|
| CHEM5030 | Capstone Course | 2 |
| CHEM3045L | Characterization and Analysis of Biological Molecules | 2 |
| | Social Science (SS) Course | 3 |
| | History (HIST) Course (HP) | 3 |
| | Free Electives | 3 |
| | | |
| | | |

Credit total **13**

Additional options for 3-year degree:

Summer Semesters – As laid out above, this degree can be completed within 3 academic years without the need of previously earned college credit. Modifications to this include taking classes in the Summer Semester following Year 3 and/or taking 18 credits in those semesters that currently contain 15 or fewer credit hours. Students interested in these options should meet with their advisor about this in order to make an academic plan early.

Advanced Standing Credit – Many students earn college level credit while in high school and it is almost always applicable to a degree program, even if just as elective credit. Students with previously earned credit can find out more about this at the university's [Transfer Credit Information](#) page. Admitted students should be sure to send their scores and/or transcripts to the university (via the Office of Admissions) in order for their credit to be transferred. Once scores and/or transcripts are received, a Credit Evaluation Report (CER) will be created for the student. The CER will allow each student to see both the aggregate number of credit hours they will receive as well as the specific courses they will count as. This will allow each student to “cross-off” classes for which they are receiving credit from the above model. The more credit a student brings to UC, the more flexibility he/she is going to have completing his/her degree. The University of Cincinnati accepts credits from a variety of programs including: Advanced Placement (AP); Cambridge International A-Level; College Level Examination Program (CLEP); International Baccalaureate (IB); Post Secondary Enrollment (PSEOP); among others. Additionally, military credit, as reported on a military transcript, is accepted at UC.

Proficiency Testing – Students may have the opportunity to “test out” of certain courses by scoring high enough on university Proficiency tests. These students do not receive credit, but they may have specific courses “waived” thereby lower the total hours they need for their degree.