

**McMicken College of Arts & Sciences**  
**Area Name: 3-year degree option BS Biochemistry**

**Fall Year 1**

CHEM1040	General Chemistry I (NS)	<b>4</b>
CHEM1040L	General Chemistry Lab I (NS)	<b>1</b>
MATH1061	Calculus I (QR)	<b>4</b>
BIOL 1081	Biology I (NS)	<b>3</b>
BIOL 1081L	BIOL I Laboratory (NS)	<b>1</b>
ENGL1001	English Composition (EC)	<b>3</b>

Credit total **16**

**Fall Year 2**

CHEM2040	Organic Chemistry I	<b>4</b>
CHEM2040L	Organic Chemistry Lab I	<b>1</b>
CHEM2080	Sophomore Seminar for Chemistry Majors	<b>1</b>
-----	Foreign Language Requirement	<b>5</b>
PHYS2001	College Physics I (calculus-based)	<b>4</b>

Credit total **15**

**Fall Year 3**

CHEM3020	Physical Chemistry	<b>3</b>
CHEM4040	Molecules of Life	<b>3</b>
CHEM5080	Senior Seminar	<b>1</b>
CHEM3046L	Characterization and Analysis of Biomolecular Interactions	<b>2</b>
	Free Electives	<b>3</b>
	Humanities Course (HU)	<b>3</b>

Credit total **15**

**Spring Year 1**

CHEM1041	General Chemistry II (NS)	<b>4</b>
CHEM1041L	General Chemistry Lab II (NS)	<b>1</b>
MATH1062	Calculus II (QR)	<b>4</b>
BIOL 1082	Biology II (NS)	<b>3</b>
BIOL 1081L	BIOL I Laboratory (NS)	<b>1</b>
	Freshman Seminar (if admitted as freshman)	<b>3</b>

Credit total **16**

**Spring Year 2**

CHEM2041	Organic Chemistry II	<b>4</b>
CHEM2041L	Organic Chemistry Lab II*	<b>1</b>
CHEM2050	Analytical Chemistry	<b>3</b>
PHYS2002	College Physics II (calculus-based)	<b>4</b>
	Social & Ethical Issues or Technology & Innovation Course (SE or TI)	<b>3</b>

Credit total **15**

**Spring Year 3**

CHEM4041	Transducing and Storing Energy in Biochemical System	<b>3</b>
CHEM5030	Capstone Course	<b>2</b>
CHEM3045L	Characterization and Analysis of Biological Molecules	<b>2</b>
	Social Science (SS) Course	<b>3</b>
	History (HIST) Course (HP)	<b>3</b>

Credit total **13**

**Summer Year 1\* (see additional options, below)**

	Foreign Language Requirement	<b>5</b>
	Social Science Course (SS)	<b>3</b>
	Historical Perspective Course (HP)	<b>3</b>
	Humanities, Literature or Fine Arts	<b>3</b>

Credit Total **14**

**Summer Year 2**

CHEM3040	Introduction to Biochemistry	<b>3</b>
ENGL2089	Intermediate Composition	<b>3</b>
	Interdisciplinary Course	<b>3</b>
BIOL2081C	Genetics and Cell Biology	<b>4</b>
	Free Electives	<b>3</b>

Credit Total **16**

Additional options for 3-year degree:

1. 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.
2. 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.
3. 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.