

ACCELERATED DUAL-DEGREE BS IN BIOCHEMISTRY/MS IN MOLECULAR & CELL BIOLOGY (3+1)

Program Contact: [Robert Collins](#) 203-582-6407

For highly qualified students, the Accelerated Dual-Degree BS in Biochemistry/MS in Molecular and Cell Biology (3+1) provides an opportunity for students to achieve both a Bachelor of Science and a Master of Science within the field of Molecular and Cell Biology within a 4-year time frame typically associated with only an undergraduate education. Students must maintain a GPA of at least 3.0 at the end of each school year for continued participation in the program.

Accelerated Dual-Degree BS in Biochemistry/MS in Molecular and Cell Biology (3+1) Recommended Curriculum

The minimum number of credits required for the undergraduate degree is 120, and the minimum number of credits required for the graduate degree is 34. A maximum of 9 graduate credits may be used to fulfill both undergraduate and graduate requirements.

Course	Title	Credits
First Year		
Fall Semester		
BIO 150 & 150L	General Biology for Majors and General Biology for Majors Laboratory	4
CHE 110 & 110L	General Chemistry I and General Chemistry I Lab	4
MA 140	Pre-Calculus	3
FYS 101	First-Year Seminar	3
EN 101	Introduction to Academic Reading and Writing	3
Credits		17
Spring Semester		
BIO 151 & 151L	Molecular and Cell Biology and Genetics and Molecular and Cell Biology and Genetics Lab	4
CHE 111 & 111L	General Chemistry II and General Chemistry II Lab	4
MA 141	Calculus of a Single Variable	3
EN 102	Academic Writing and Research	3
UC Elective		3
Credits		17
Summer Semester		
UC Elective		3
UC Elective		3
CHE 210 & 210L	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 211 & 211L	Organic Chemistry II and Organic Chemistry II Lab	4
Credits		14

Second Year		
Fall Semester		
CHE 215 & 215L	Analytical Chemistry and Analytical Chemistry Lab	4
CHE 315 & 315L	Biochemistry I and Biochemistry I Lab	4
CHE 410 or CHE 300	Inorganic Chemistry or Special Topics	3
UC Elective		3
Foreign Language		3
Credits		17
Spring Semester		
BIO 515	Advanced Biochemistry	4
CHE 305 & 305L	Instrumental Analysis and Instrumental Analysis Lab	4
Open Elective		3
UC Elective		3
Foreign Language		3
Credits		17
Summer Semester		
PHY 110 & 110L	General Physics I and General Physics I Lab	4
PHY 111 & 111L	General Physics II and General Physics II Lab	4
UC Elective		3
Credits		11
Third Year		
Fall Semester		
BIO 571	Molecular Genetics	4
CHE 301 & 301L	Physical Chemistry I and Physical Chemistry I Lab	4
CHE 475 & CHE 490	Chemistry Seminar I and Chemistry Research I	4
Open Elective		3
Credits		15
Spring Semester		
BIO 605	DNA Methods Laboratory	4
CHE 302 & 302L	Physical Chemistry II and Physical Chemistry II Lab	4
CHE 476 & CHE 491	Chemistry Seminar II and Chemistry Research II	4
CHE 420	Chemistry Integrative Capstone	3
Credits		15
Summer Semester		
BIO 688	Independent Study	3
Credits		3
Fourth Year		
Fall Semester		
BIO 568	Molecular and Cell Biology	4
BIO 606	Protein Methods Laboratory	4
Graduate Elective		3
Credits		11

Spring Semester

BIO 675	Comp Exam in Molecular and Cell Biology	2
	Graduate Elective	3
	Graduate Elective	3
Credits		8
Total Credits		145

The Accelerated Dual-Degree BS/MS program is designed for outstanding biochemistry majors—those who rank in the top 20 percent of their high school class and who have a combined SAT score of 1200. Students are invited to join the program prior to matriculation. This program has several features, including flat tuition for the entire four years.

Admission Requirements: College of Arts and Sciences

The requirements for admission into the undergraduate College of Arts and Sciences programs are the same as those for admission to Quinnipiac University.

Admission to the university is competitive, and applicants are expected to present a strong college prep program in high school. Prospective first-year students are strongly encouraged to file an application as early in the senior year as possible, and arrange to have first quarter grades sent from their high school counselor as soon as they are available.

For detailed admission requirements, including required documents, please visit the Admissions (<http://catalog.qu.edu/general-information/admissions/>) page of this catalog.