

DUAL-DEGREE BS IN BIOLOGY/MBA (4+1)

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The Department of Biological Sciences offers a Dual-Degree BS in Biology and a Master of Business Administration (MBA). This Dual-Degree BS/MBA program allows current undergraduate Biology majors to complete an undergraduate and graduate degree in five years. Students will gain a broad interdisciplinary perspective that integrates scientific knowledge with strategic business management to navigate complex real-world challenges. This dual-degree program successfully prepares students to join the next generation of leaders in growing industries such as biotechnology, biopharmaceuticals, healthcare, and regulatory agencies.

Students develop a basic foundation in biology, chemistry, and physics during the undergraduate portion of the program, begin MBA graduate-level coursework in the fourth year, and complete the MBA degree in the fifth year. Students in this program must complete all the requirements of the BS in Biology (<https://catalog.qu.edu/arts-sciences/biological-sciences/biology-bs/>) and the Master of Business Administration (<https://catalog.qu.edu/graduate-studies/business/business-administration-mba/#text>).

Students who choose to pursue the Dual-Degree BS in Biology/MBA (4+1) must complete all the requirements of the BS in Biology (<https://catalog.qu.edu/arts-sciences/biological-sciences/biology-bs/>) and the Master of Business Administration (<https://catalog.qu.edu/graduate-studies/business/business-administration-mba/fast-track-combined-bs-mba/>) and are required to complete the following courses by the end of their fourth year:

Code	Title	Credits
EC 111	Principles of Microeconomics	3
AC 211	Financial Accounting	3
EC 272	Advanced Applied Statistics	3

For additional guidance on how these courses are integrated within the BS/MBA 4+1 Dual-Degree program, please refer to the Sample Course Plan (p. 1) tab, which represents a five-year academic plan.

Shown below is one of several possible paths through the curriculum. Students choose courses and follow a curriculum determined in consultation with their adviser; individual planning will vary based on a number of factors, including, for instance, Advanced Placement and/or transfer credits.

The minimum number of credits required for the undergraduate degree is 120. Students should take an average of 15-16 credits per undergraduate semester as outlined below.

Students in the dual-degree (4+1) program may complete up to 9 credits of graduate courses during their senior year, which also fulfill undergraduate open electives. Students must work with their undergraduate adviser and the MBA director to ensure that the courses fit into both degree programs.

The minimum number of credits required for the graduate degree is 45. A full year of study (two terms and a minimum of 18 graduate credits) must be taken after the conferral of the undergraduate degree to earn

a graduate degree. Students must present satisfactory performance in their graduate coursework completed during their senior year to be officially admitted into the graduate program upon completion of their BS degree. The BS/MBA curriculum consists of the MBA core courses plus a requirement to complete MBA 688 MBA Internship.

Courses taken to fulfill the undergraduate Bachelor of Science in Biology are identical to those listed in the BS in Biology curriculum.

Courses taken to fulfill the graduate Master of Business Administration are identical to those listed in the Dual Degree BS/MBA (4+1) Program of Study (<https://catalog.qu.edu/graduate-studies/business/business-administration-mba/fast-track-combined-bs-mba/#curriculumtext>).

Code	Title	Credits
First Year		
Milestones: Earn 30 credits, an overall GPA of 2.0 or higher, and a science GPA of 2.25 or higher. Meet with your academic advisor at least once each semester.		
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
EN 101	Introduction to College-Level Reading And Writing ¹	3
FYS 101	First-Year Seminar	3
Open Electives		1-2
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
EN 102	Reading, Writing, & Research In College and Beyond	3
MA 140	Pre-Calculus ¹	3
Open Electives		1-2
Second Year		
Milestones: Earn 60 credits, an overall GPA of 2.0 or higher, and a science GPA of 2.25 or higher. Meet with your academic advisor at least once per semester to discuss academic, experiential learning, career, and co-curricular opportunities.		
Fall Semester		
BIO 252 & 252L	Ecology and Biodiversity and Ecology and Biodiversity Laboratory ²	3-4
or BIO 298	Experimental Design and Communications	
CHE 210 & 210L	Organic Chemistry I and Organic Chemistry I Lab	4
MA 141	Calculus of a Single Variable ¹	3
or MA 275	Biostatistics	
Language at the 101 level		3
Open Electives		2-3

