

DUAL-DEGREE BS IN BIOMEDICAL SCIENCES/MAT (4+1)

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The purpose of Quinnipiac's Dual-Degree Biomedical Sciences/MAT program is to prepare graduates with perspectives, knowledge and skills to become master educators. The School of Education recognizes that the concept of educator is three-dimensional, and that successful educators must be teachers, learners and leaders. Therefore, graduates of the Master of Arts in Teaching program are teachers who lead all students to learn, learners who continue to learn as they continue to teach, and leaders who influence the culture of their schools in ways that support best practices in teaching and learning.

The program reflects the spirit and mission of Quinnipiac University with close attention to the teaching standards for the state of Connecticut and to the standards of the Council for the Accreditation of Educator Preparation (CAEP). The three values of "excellence in education, a sensitivity to students, and a spirit of community" which are at the heart of Quinnipiac's mission statement are woven through the program.

General Information

The dual-degree program provides the means for Quinnipiac students to earn a bachelor's degree in Biomedical Sciences and a master of arts in teaching degree leading to certification through the Connecticut State Department of Education. Consistent with the university's mission, arts and sciences studies are integrated with professional studies to prepare graduates who have depth and breadth of content knowledge and strong pedagogical skills.

The dual-degree program is divided into a two-year preprofessional component and a three-year professional component. The two-year preprofessional program includes a required introductory course (ED 140) that acquaints prospective teacher candidates with the teaching profession. Students are encouraged to take this course during their first year but no later than the fall semester of their sophomore year. Additional required courses before the junior year include educational philosophy and diversity (ED 250 and ED 260). Students will complete the requirements for the undergraduate degree in Biomedical Sciences within the first four years.

Students begin their professional component in the fall semester of their junior year. Supervised fieldwork, an integral part of the professional component, includes undergraduate observation and fieldwork, a graduate internship/residency, and student teaching. Following completion of the fourth year of study, students receive a bachelor of arts or bachelor of science degree in their academic major. Students begin their graduate work immediately following graduation. Any teacher candidate enrolled in the dual-degree program who does not complete all the requirements for undergraduate completion of the bachelor's degree as anticipated will not be allowed to enter any graduate fifth year without the written consent of the program director.

Note: Because the MAT program is subject to state review on a regular basis, prospective and current students are advised to see the School of Education for up-to-date program information.

Course	Title	Credits
Freshman		
Fall Semester		
EN 101	Introduction to Academic Reading and Writing	3
MA 140 or MA 141	Pre-Calculus or Calculus of a Single Variable	3
CHE 110 & 110L	General Chemistry I and General Chemistry I Lab	4
BIO 150 & 150L	General Biology for Majors and General Biology for Majors Laboratory	4
FYS 101	First-Year Seminar	3
Credits		17
Spring Semester		
EN 102	Academic Writing and Research	3
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
HS 131 or HS 132	U.S. History to 1877 or U.S. History Since Reconstruction	3
BMS 275	Introduction to Biomedical Research	2
Credits		16
Sophomore		
Fall Semester		
BIO 211 & 211L	Human Anatomy and Physiology I and Human Anatomy and Physiology Lab I	4
CHE 210 & 210L	Organic Chemistry I and Organic Chemistry I Lab	4
MA 275	Biostatistics	3
ED 140	Introduction to Public Education and the Teaching Profession	1
ED 250	Diversity, Dispositions and Multiculturalism	3
Credits		15
Spring Semester		
BIO 212 & 212L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Lab	4
CHE 211 & 211L	Organic Chemistry II and Organic Chemistry II Lab	4
ED 260	Social and Philosophical Foundations of Education	3
BMS 370 & 370L	General Microbiology and General Microbiology Lab	4
Credits		15
Junior		
Fall Semester		
BMS 375 & 375L	Immunology and Immunology Lab	4
PHY 110 & 110L	General Physics I and General Physics I Lab	4
ED 341 & 341L	Learning and Teaching the Developing Child and Learning and Teaching: Pedagogy Field Lab I	4
PS 101	Introduction to Psychology	3
Credits		15

Spring Semester

PHY 111 & 111L	General Physics II and General Physics II Lab	4
BMS 472 or BMS 471	Biotechnology or Human Anatomy & Dissection	4
ED 343 & 343L	Advanced Learning and Teaching in Secondary Classrooms and Advanced Learning and Teaching: Secondary Assessment Field Lab II	4
UC Fine Arts		3
Credits		15

Senior**Fall Semester**

BMS 318	Pathophysiology	3
CHE 315 & 315L	Biochemistry I and Biochemistry I Lab	4
PS 236	Child and Adolescent Development	3
ED 409 & 409L	Reading and Writing Across the Curriculum and English Language Arts Field Lab III	4
ED 477	Teaching English Language Learners in the Mainstream Classroom	3
Credits		17

Spring Semester

SHS 420	Integrative Capstone	3
SPED 552	Teaching in the Inclusive Classroom	3
ED 452L	Inclusive Classroom Secondary Field Lab IV	1
ED 502 & 502L	Teaching Methods in Secondary Biology and Science Laboratory Safety Course	4
UC Foreign Language		3
Credits		14
Total Credits		124

Admission

Students in the Biomedical Sciences degree program will apply into the MAT as follows:

Admission to the dual-degree program is based on a holistic review by MAT program faculty of the following admission requirements:

- A 3.00 minimum overall undergraduate GPA (from all colleges and universities attended) for 45 credits of coursework with a subject area major or appropriate interdisciplinary major.
- Students applying to the MAT program are required to take one of the following tests: Praxis Core Mathematics, Reading and Writing tests, the SAT or the ACT. Scores will be reviewed by School of Education faculty as part of the retention review process.
- At least two written recommendations from individuals who have recent knowledge (within the last two years) of the applicant's suitability as a prospective educator, including one from a college instructor.
- A written essay completed in ED 140 that meets program standards.
- A formal retention review interview during which the applicant is expected to demonstrate: an ability to communicate clearly, a demeanor appropriate to the teaching profession, and a maturity and attitude necessary to meet the demands of the MAT program.