

# BIOLOGY B.A./ANATOMY M.S.

Enter as an undergraduate in D'Youville's combined Biology B.A. + Anatomy M.S. degrees, and you will benefit from intensive, hands-on study with a solid grounding in contemporary research techniques and gain valuable practical experience in our Human Gross Anatomy Lab, all while working closely with faculty both in the classroom and in research settings.

The Biology B.A. degree includes a total of 39-41 hours in biology and 16 hours in related fields (chemistry and mathematics). The Anatomy M.S. degree requires 30 additional hours of graduate coursework. Graduate students may also work as a Teaching Assistant in the undergraduate Anatomy and Physiology I and II Laboratories

When you graduate from D'Youville's Anatomy program, you'll be well-prepared for a variety of career paths including pursuing a professional healthcare or science degree (M.D., D.O., P.A., D.C., Ph.D., etc.), academic research and instruction, or scientific and managerial positions in health-related industries.

Undergraduate students within the department must maintain a minimum 2.0 G.P.A. in courses taken at D'Youville in coursework required for their major. Students who fail to earn this G.P.A. will be placed on probation in the major. Probation may continue for a maximum of three consecutive semesters or a total of four non-consecutive semesters. Students who exceed these limits will be dismissed from the major. Students may appeal these decisions on academic status by submitting, in writing, to the department chairperson, reasons why exceptional consideration may be justified.

During the graduate phase students must maintain a cumulative G.P.A. of 3.0 or above for all graduate courses (500 and 600 level courses). A student who has less than a 3.0 cumulative G.P.A at any time is placed on academic probation for one semester. At the end of the probation semester, the student's file is reviewed by the graduate program coordinator. If the student's cumulative G.P.A. is a minimum of 3.0, the student is automatically removed from probation. If the student does not achieve a 3.0 G.P.A., the graduate program coordinator will either dismiss the student from the program immediately or continue the student on probation for one more semester. If a minimum of 3.0 is not achieved following the second semester of probation dismissal is automatic.

Graduate courses must be completed with a grade of C or better, with only two of these classes below a B. A student who receives less than a C or fails a Satisfactory/Unsatisfactory course must repeat the course unless they have been dismissed. Courses may be repeated one time only. A G.P.A. of 3.0 is required at the time of graduation. Each student must successfully complete and present a research project or capstone project, which includes a written manuscript or scholarly written report and successful presentation of the project to their chosen committee (research project) or classmates (capstone project).

An appeal to any of the above may be made by following the D'Youville grievance procedures.

During the graduate phase students may work as a Teaching Assistant in the Anatomy and Physiology I and II Laboratories.

## Combined Biology B.A. and Anatomy M.S.

Code	Title	Credits
	General Education Requirements	30
	Major Requirements	53
	Free electives (including remaining Liberal Arts and Sciences Requirements)	40
	Graduate Requirements <sup>1</sup>	30

<sup>1</sup> There are three (3) common credits between the Masters and the majors requirements, which are not double counted in the total of 150 credits.

## Course Requirements for the Biology B.A. In the Specific Areas of Concentration

Code	Title	Credits
BIO-101	Introductory Biology I	4
BIO-101L	Intro Bio Lab I	0
BIO-102	Introductory Biology II	4
BIO-102L	Intro Bio Lab II	0
BIO-110	Biology Seminar 1	1
BIO-205	Biodiversity I, Microbes, Protists, and Plants	4
BIO-205L	Biodiversity I, Microbes, Protists, and Plants Lab	0
BIO-206	Biodiversity II	4
BIO-206L	Biodiversity II Lab	0
BIO-300	Biology Seminar 2	1
BIO-302	Genetics	4
BIO-302L	Genetics Lab	0
BIO-303	Biochemistry	3
BIO-303L	Biochemistry Lab	1
BIO-499	Capstone Experience <sup>1</sup>	3

<sup>1</sup> <p>There are three (3) common credits between the Masters and the majors requirements, which are not double counted in the total.</p>

## Two out of Three of the Following Courses (7 or 8 credits)

Code	Title	Credits
BIO-305	Human Physiology	3
BIO-306	Ecology, Evolution & Behavior <sup>1</sup>	4
BIO-306L	Ecology, Evolution & Behavior Lab	0
BIO-312	Molecular Cell Biology	4

<sup>1</sup> <p>There are three (3) common credits between the Masters and the majors requirements, which are not double counted in the total.</p>

## In Other Academic Areas Required for the Major

Code	Title	Credits
CHE-101	General Chemistry I	3
CHE-101L	General Chemistry Laboratory	1
CHE-102	General Chemistry II	3
CHE-102L	General Chemistry Laboratory II	1
CHE-219 or CHE-209	Organic Chemistry Principles of Organic Chemistry	3

CHE-219L	Organic Chemistry Lab	1
or CHE-209L	Principles of Organic Chemistry Lab	
MAT-102L	Mathematics in Biology: Models, Data and Relations	1
MAT-201	Biostatistics	3
<b>Total Credits</b>		<b>16</b>

## Course Requirements for the Anatomy M.S.

(3 or 4 of the biology credits also count toward the major)

Code	Title	Credits
ANA-504L	Microscopic Anatomy Lab	1
ANA-601	Research Methods in Anatomy I	3
BIO-505	Neurobiology	4
BIO-505L	Neurobiology Lab	0
BIO-517	Comparative Anatomy	4
BIO-517L	Comparative Anatomy Lab	0
BIO-520	Developmental Biology	4
BIO-520L	Developmental Biology Lab	0
BIO-639	Human Gross Anatomy	6
BIO-639L	Human Gross Anatomy Lab	0
BIO-639XD	Human Gross Anatomy Extra Dissection Lab	0
BIO-689	Special Topics	1
Choose 1 of the following 2 sequences		7
ANA-602 & ANA-605	Research Methods in Anatomy II and Research Seminar	
ANA-603 & ANA-604	Advanced Human Dissection and Anatomy Capstone	
<b>Total Credits</b>		<b>30</b>

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. If you have been successful in a traditional college preparatory program in high school, you should be well-prepared for the academic challenges at D'Youville.

**Students entering D'Youville as a freshman into the joint Biology B.A./Anatomy M.S. program must meet the following minimum entrance criteria:**

Admission into the B.A. in Biology requires 1) three years of high school Math, English, History, and Science, 2) a high school average of 80% or a 2.7 on a four-point scale or a transfer G.P.A. of 2.0, and, 3) a high school science G.P.A. above 80%.