CHEMISTRY B.A.

The Chemistry B.A. degree is designed for students wishing to pursue a job or professional degree in a field outside of chemistry, but with a solid foundation in chemistry. It is an excellent option for students who wish to pursue careers in the health fields such as pharmacy, medical, or dental school.

Chemistry B.A. Program:

Students are required to take the following courses with their corresponding laboratories: General Chemistry I (CHE-101), General Chemistry II (CHE-102), Organic Chemistry (CHE-219), Organic Chemistry II (CHE-220), Physical Chemistry for the Life Sciences (CHE-321) OR Physical Chemistry I (CHE-311), Analytical Chemistry (CHE-331), Instrumental Analysis (CHE-332) and Inorganic Chemistry (CHE-401). In addition, the student must choose to take TWO of the following (one must be 4 credits): Biochemistry (CHE-303) and the corresponding laboratory, Instrumental Analysis (CHE-332), Medicinal Chemistry (CHE-351), Spectroscopy (CHE-412), or Survey of Organometallic Chemistry (CHE-421). Other required courses include the following: General Physics I (PHY-101) OR Introduction to Physics (PHY-111) and corresponding laboratory, General Physics II (PHY-102) OR Introduction to Physics (PHY-112) and corresponding laboratory, Calculus I (MAT-125), and Calculus II (MAT-126) OR Introduction to Applied Statistics (MAT-123).

A Chemistry degree combined with a Biology minor is an excellent gateway into the medical profession. Many medical school applicants possess Chemistry degrees coupled with key Biology courses to enhance their submission. These courses are also available to you at D'Youville (e.g., Anatomy & Physiology). Since the Chemistry major is housed within the Department of Natural Sciences and Mathematics, Chemistry students are provided all of the graduate school and medical school entrance support as well as the utilization of the Pre-Professional Committee in the department.

Students within the department must maintain a minimum of 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 nonconsecutive 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.

Course Requirements for the Major

Code	Title	Credits
General Education Requirements		30
Chemistry courses		33-34
Additional mathematics and natural science courses		16
Liberal Arts and Science Electives		12
Free Electives (including remaining Liberal Arts and Sciences Requirements)		30
Total Credits		**121-122**

In the Specific Areas of Concentration

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	Organic Chemistry	3
CHE-219L	Organic Chemistry Lab	1
CHE-220	Organic Chemistry II	3
CHE-220L	Organic Chemistry II Lab	1
CHE-331	Analytical Chemistry	4
CHE-321	Physical Chemistry for the Life Sciences	3
or CHE-311	Physical Chemistry I	
CHE-401	Inorganic Chemistry	3
Select two of the following electives (one must be 4 credits):		7
CHE-303 & 303L	Biochemistry and Biochemistry Laboratory	
CHE-332	Instrumental Analysis	
CHE-351	Medicinal Chemistry	
CHE-412	Spectroscopy	
CHE-421	Survey of Organometallic Chemistry	
Total Credits		**33**

In Other Academic Areas Required for the Major

Code	Title	Credits
MAT-125	Calculus I	4
MAT-126	Calculus II	4
or MAT-123	Introduction to Applied Statistics	
PHY-101	General Physics I	3
or PHY-111	Introduction to Physics	
PHY-101L	Gen Physics Lab I	1
or PHY-111L	Introduction to Physics Lab	
PHY-102	General Physics II	3
or PHY-112	Introduction to Physics	
PHY-102L	Gen Physics Lab II	1
or PHY-112L	Introduction to Physics Lab	
Total Credits		**16**

Admission into the B.A. in Chemistry program requires a minimum high school average of 85%, a rank in the top 50% of one's class, and three years of high school Math and Science. Transfer students are required to have a minimum G.P.A. of 2.5.