PHARMACEUTICAL SCIENCE B.S.

A Bachelor's of Science in Pharmaceutical Science (BSPS) prepares students to work in entry-level technical positions in the pharmaceutical, government, and academic research industries. The BSPS program is for anyone interested in a career in drug research and development, pharmaceutical marketing, or drug regulation.

Students in the BSPS program will be exposed to areas such as the chemistry of medicines, drug discovery, product development, and ethical considerations in research and practice. Those enrolled will have opportunities to use basic chemistry, mathematics, and biological training in a wide range of specialized research opportunities in the School of Pharmacy's state-of-the-art research laboratory.

Since the BSPS is an undergraduate degree, graduates with this degree are not eligible for licensure or to practice as a pharmacist without further education. However, graduates often go on to pursue graduate school or progress into professional degree programs such as pharmacy, medicine, allied health, or law.

Code	Title	Credits
Major Requirements (Specific Area of Concentration)		24
Major Requirements (Other Academic Areas)		44
Liberal Arts and Science Electives		52
Total Credits		**120**

Course Requirements for the Major

In the specific areas of concentration

Code	Title	Credits
PPS-301	Principles of Pharmaceutical Sciences I	2
or PMD-605	Pharmacokinetics	
PPS-302	Principles of Pharmaceutical Sciences II	3
or PMD-609	Pharmacodynamics	
PPS-304	Pharmaceutical Dosage Forms	3
or PMD-608	Pharmaceutics	
PPS-306	Principles of Pharmaceutical Sciences Practicum	2
or PMD-708	Evidence-Based Medicine I	
PPS-401	Principles of Pharmaceutical Sciences III	2
or PMD-606	Medicinal Chemistry	
PPS-403	Drug Discovery and Development	2
or PMD-605	Pharmacokinetics	
PPS-404	Individualized Medicine: Informatics and Pharmacogenomics	2
or PMD-713	Pharmacogenomics	
PPS-405	Laboratory Research in the Pharmaceutical Sciences I	3
or PMD-737	Research Elective	
PPS-406	Laboratory Research in the Pharmaceutical Sciences II	3
or PMD-837	Research Elective	
Pharmacy Elective		2
Total Credits		**24**

In other academic areas required for the major

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-107	Human Anatomy & Physiology I	3
or PMD-603	Anatomy Physiology Pathophysiology I	
BIO-107L	Human Anatomy & Physiology Laboratory	1
or PMD-603	Anatomy Physiology Pathophysiology I	
BIO-108	Human Anatomy & Physiology II	3
or PMD-604	Anatomy Physiology Pathophysiology II	
BIO-108L	Human Anatomy & Physiology II Lab	1
or PMD-604	Anatomy Physiology Pathophysiology II	
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
MAT-123	Introduction to Applied Statistics	4
MAT-125	Calculus I	4
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	
Total Credits		**44**

Admissions Requirements

D'Youville selects students who are academically well-rounded and committed to meeting the challenges of a high-quality education. Students entering the BSPS program directly after high school should be prepared to enter into this competitive and rigorous mathematics and science-based degree.

Admission requirements for applicants entering as freshman are as follows:

Code	Title	Credits
Admission Requirements		
SAT and ACT Tests are not required, but will be considered if requested by the candidate.		
A high school average of at least 85 percent, or 2.85 on a 4.0 scale.		
Transfer students are required to have a minimum of C or better in each of the courses for which credit is transferred.		