

Enhance Your Employment Opportunities

Regardless of the major you choose, your experiences outside the classroom will help you to develop marketable skills to increase your future employability anywhere.

- Internships, volunteering, part-time or summer employment
buffalo.edu/career
- Research opportunities
curca.buffalo.edu
- Student clubs and organizations
buffalo.collegiatelink.net
- Writing skills
www.buffalo.edu/cas/writing
- Public speaking and community involvement
leadership.buffalo.edu
- Other workshops
workshops.buffalo.edu

Student Success and Retention
Office of Student Advising Services
109 Norton Hall
716-645-6013
sas-advisor@buffalo.edu
sas.buffalo.edu

Resources

UB Resources

Changing Your Major (Major Transitions)

advising.buffalo.edu/change

Choosing Your Major

advising.buffalo.edu/choose

Counseling Services

ub-counseling.buffalo.edu

Undergraduate Advising

advising.buffalo.edu

Undergraduate Degree & Course Catalog

undergrad-catalog.buffalo.edu

Career Services

buffalo.edu/career

259 Capen Hall • 716-645-2231

If it's time for a re-evaluation of your interests and goals, UB's Office of Career Services is an excellent resource, providing career counseling, self-assessment, the UB Mentor Program on LinkedIn, the UBE 202 Career Planning course and more.

Science and Pharmaceutical Resources

Biology Jobs

biologyjobs.com

Explore Health Careers

explorehealthcareers.org

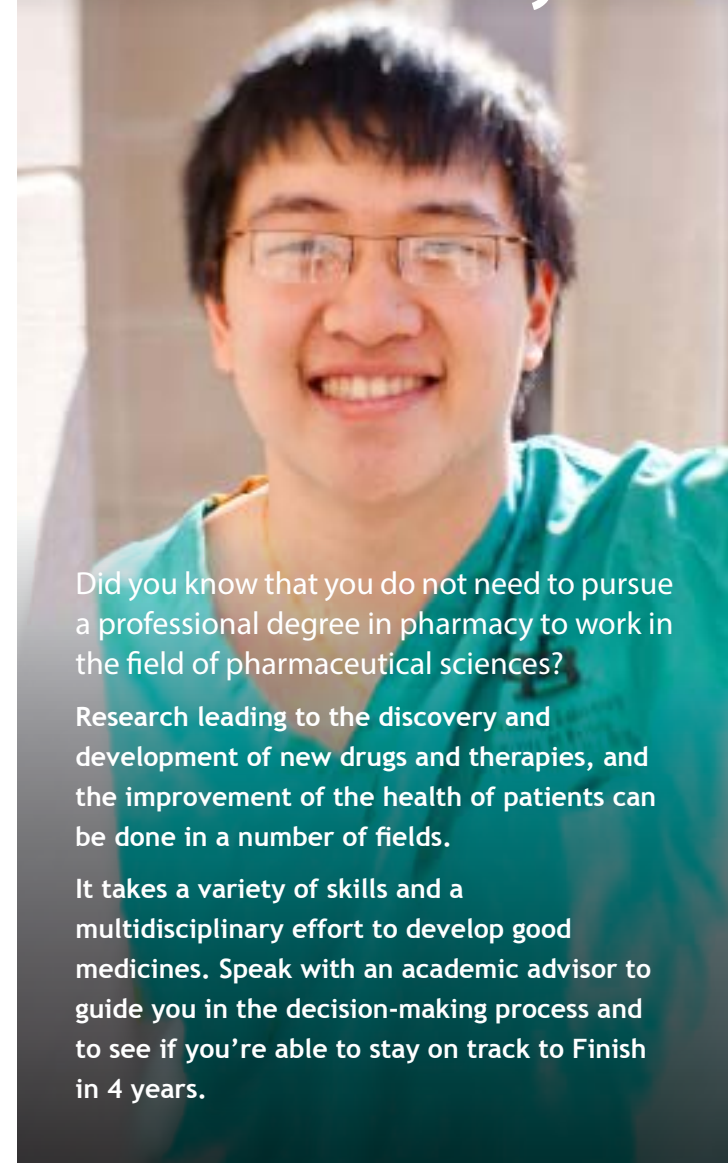
Pharmaceutical Sciences

aaps.org/careercenter

Science Careers

sciencecareers.sciencemag.org

Exploring Alternative Majors to Pharmacy



Did you know that you do not need to pursue a professional degree in pharmacy to work in the field of pharmaceutical sciences?

Research leading to the discovery and development of new drugs and therapies, and the improvement of the health of patients can be done in a number of fields.

It takes a variety of skills and a multidisciplinary effort to develop good medicines. Speak with an academic advisor to guide you in the decision-making process and to see if you're able to stay on track to Finish in 4 years.



University at Buffalo
Student Advising Services
Student Success and Retention

Alternative Majors

Biochemistry*

140 Farber Hall • 716-829-2727

medicine.buffalo.edu/biochemistry

Students seeking to examine the chemical basis of life while building a solid foundation in biochemical processes and research can focus on a BS degree in biochemistry. The degree is suitable for students with good laboratory and analytical ability. While a majority of graduates pursue professional degrees in dentistry and medicine or attend graduate school, some find employment in such fields as consumer protection, food and drug analysis and technology, pharmaceuticals, sales and others. Please note: This major requires more rigorous sequences in math (MTH141/142) and physics (PHY107/108/158). The department also offers MA and PhD degrees.

*selective admission

Biological Sciences

109 Cooke Hall • 716-645-2363

biology.buffalo.edu

Students with a biological sciences degree find employment in such diverse fields as science writing, medical illustration, biologically oriented computer applications, teaching, sales, marketing, horticulture and research technician. The BA degree allows students to do elective laboratory and lecture courses while providing a broad-based education in the biological sciences. The BS degree provides the opportunity for in-depth study within sub-disciplines of the biological sciences, including cell and molecular biology, ecology and evolutionary biology, and pre-health studies. The department also offers MA, MS and PhD degrees.

Biomedical Sciences*

127 Sherman Annex • 716-829-3005

medicine.buffalo.edu/education/undergraduate

A BS in biomedical sciences enables students to increase the breadth of their undergraduate experience, combine courses from various departments within the Jacobs School of Medicine and Biomedical Sciences, and focus their undergraduate experience in preparation for professional or graduate studies. This major requires students to take core courses that are traditionally considered prerequisites for professional programs in medicine, dentistry, optometry and veterinary medicine. These courses are also generally required for admission to most graduate programs in health science disciplines. A small number of graduates who enter the job market upon graduation pursue careers in pharmaceutical sales or as laboratory technicians.

*selective admission, application deadline

Biotechnology*

26 Cary Hall • 716-829-3630

medicine.buffalo.edu/education/undergraduate

Biotechnology is geared toward students interested in scientific careers in the rapidly expanding biotechnology industry. Employment is extremely varied and available in both the public and private sectors, industry research, regulatory affairs, management, sales and education. Biotechnology also provides an excellent background for advanced graduate or professional degrees in the sciences. Interdisciplinary in approach, the program provides a core curriculum of basic science and mathematics courses, and students choose technical electives from anthropology, pharmacology and toxicology, biology, chemistry, medicinal chemistry, medical technology and other departments according to their career goals.

*selective admission, application deadline

Chemistry and Medicinal Chemistry

363 Natural Sciences Bldg. • 716-645-6800 ext. 2

chemistry.buffalo.edu

Graduates with a bachelor's degree in **chemistry** often work as bench chemists in industry, hospitals and government laboratories, or attend graduate or professional schools in such areas as medicine, law or business. The chemistry department offers two degree programs, in which students can specialize in analytical, inorganic, medicinal, organic or physical chemistry. The BA program is designed for students who wish to pursue a very flexible course of study, while the BS program is for those who desire more complete training in chemistry and plan to continue professionally in the field after graduation. **Medicinal chemistry** is an interdisciplinary area incorporating synthetic organic chemistry, biochemistry, pharmacology, molecular biology and pharmaceutical chemistry in the search for better drugs. Medicinal chemists have the opportunity to advance science and to also see their work directly contribute to alleviating many of the diseases afflicting humankind.

Medical Technology*

26 Cary Hall • 716-829-3630

medicine.buffalo.edu/education/undergraduate

Medical technology deals with the diagnosis and treatment of disease. It is a field of applied biology and chemistry and is appropriate for students interested in the delivery of health-care services. The BS degree in medical technology is interdisciplinary in nature, drawing heavily upon the resources of both the natural sciences and the health sciences. Career opportunities for medical technologists are extremely varied and employment is available in both the public and private sectors. Work settings include hospital or private laboratories, instrument manufacturers, research or industrial laboratories, and scientific writing or editing situations, to name a few.

*selective admission, application deadline

Nuclear Medicine Technology*

105 Parker Hall • 716-838-5889 ext. 135

medicine.buffalo.edu/education/undergraduate

The BS in nuclear medicine technology prepares students for a health-related profession that uses radioactive materials for diagnostic, therapeutic and research purposes. Although it is a highly technical profession, the field also offers a lot of patient interaction. The majority of positions in the nuclear medicine technology field are in hospitals, physician's offices and outpatient imaging centers. Nuclear medicine technologists can also branch into health physics or work for commercial companies in sales, research or education.

*selective admission; application deadline

Pharmaceutical Sciences*

270 Kapoor Hall • 716-645-2825

pharmacy.buffalo.edu

Graduates of the pharmaceutical sciences major are highly sought for employment in pharmaceutical research environments. Graduates may also find opportunities in university, hospital or pharmaceutical industry settings as research associates, drug analysts, manufacturing/production technologists or marketing/sales drug representatives, or pursue graduate studies. The program offers a unique interdisciplinary field of study that seeks to achieve better understanding of the factors influencing clinical responses to drug therapy. Coursework includes biology, chemistry, biochemistry and mathematics.

*selective admission; application deadline

Pharmacology and Toxicology*

102 Farber Hall • 716-829-2800

medicine.buffalo.edu/departments/pharmtox

The Department of Pharmacology and Toxicology offers both a BS and a five-year combined BS/MS program. Both provide a strong preparation for graduate study in the biomedical sciences and for professional programs such as pharmacy, medicine, dentistry and law. The broad academic background of a pharmacology and toxicology degree provides students with a wide array of career opportunities, including the pharmaceutical and chemical industry, government or university laboratories, and technical or sales positions. Conceptually, this program is based on fundamental sciences, including physics, chemistry and mathematics, and it borrows from developments in allied biomedical fields such as physiology, biochemistry and molecular biology.

*selective admission, application deadline

Other alternative scientific disciplines for students strong in science and mathematics: Refer to the Academic Programs section of the Undergraduate Degree & Catalog. Examples include engineering, exercise science, nursing, occupational therapy, psychology (BS) and physics.

Other multidisciplinary fields: Anthropology, business, economics, psychology (BA), sociology, social sciences interdisciplinary, special majors, and other College of Arts and Sciences majors can provide a variety of skills that are attractive to potential employers.