

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 Health Resources

Biology Jobs

biologyjobs.com

Explore Health Careers

explorehealthcareers.org

New York Health Careers

healthcareersinfo.net

Science Careers

sciencecareers.sciencemag.org

UB Prehealth Advising

prehealth.buffalo.edu

Exploring Alternative Majors to

Biomedical Sciences

Did you know that you do not need to major in biomedical sciences in order to apply to graduate programs in the life sciences? This is true even if applying to professional health schools, such as medicine, dentistry, podiatry, optometry, chiropractic, physician assistant or veterinary medicine.

Professional health schools enroll students from ALL majors. There are many majors you can explore, and while several have similar prerequisites to the biomedical sciences program, there are numerous non-science majors worthy of exploration, including anthropology, psychology, sociology, philosophy and more. Speak with an academic advisor for guidance in the decision-making process and to see if you're able to stay on track to Finish in 4 years.

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 go on to 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.

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.

Geography

105 Wilkeson Quad • 716-645-2722

buffalo.edu/cas/geography

The Department of Geography offers courses in health geography and spatial data analysis. In doing a BA in Geography, students have the option to select courses to focus upon understanding patterns of disease clusters, spread of disease, urban health inequalities, access to healthcare, and tropical/infectious diseases. Courses in health geography can be combined with classes in Geographic Information Science and statistics to study spatial epidemiology.

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. Course work 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 in 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

Psychology

283 Park Hall • 716-645-3650

psychology.buffalo.edu

The Department of Psychology offers both BA and BS degrees. The BS degree includes strong science-oriented training that emphasizes the scientific foundation of psychology along with a strong basic science background. The BA degree allows students to pursue diverse interests while obtaining a strong foundation in the behavioral sciences. Graduates of the program are prepared for science-based professions as well as advanced training in psychology, medicine, cognitive science, neuroscience and related disciplines.

Social Sciences Interdisciplinary

203 Clemens Hall • 716-645-2245

ssciddp.buffalo.edu

The interdisciplinary degree programs in the social sciences offer students an opportunity to focus on a particular thematic area of interdisciplinary studies whose breadth and diversity overlap several departments. Each program is designed to offer choice and flexibility in building the program most suitable for individual interests and career goals. There are six different concentrations within the BA and BS programs: cognitive science, environmental studies, health and human services, international studies, legal studies, and urban and public policy studies.