



## BACHELOR OF SCIENCE

# Biomedical Sciences

## ABOUT THE PROGRAM

Through comprehensive coursework in applied biology related to health and diseases, the Bachelor of Science in biomedical sciences program prepares you for a rewarding career in industry and research environments or for graduate and professional study.

## STUDENT OUTCOMES

After graduating with a bachelor's in biomedical sciences, you can jumpstart your career in a variety of biomedical fields, including:

- Research
- Health care
- Forensic science
- Biotechnology
- Product sales
- Services related to analysis, assessment and inspection

In our biomedical sciences program, you'll build the skills and knowledge you need to succeed, including:

- Interdisciplinary understanding of biology, chemistry and physics
- Critical thinking and problem-solving skills as applied to the sciences
- Ability to conduct and analyze meaningful research
- Foundational knowledge to confidently enter a graduate or professional program in biomedical sciences or health care

## ADVANCED OPPORTUNITIES

Your undergraduate education can serve as the foundation for graduate and advanced study in fields such as:

- Biology
- Medicine
- Nursing
- Dentistry
- Optometry
- Veterinary Medicine
- Physical Therapy
- Occupational Therapy
- Research
- Pharmacy

Visit [uhsp.edu/academics](https://uhsp.edu/academics) to learn more about this and other programs at UHSP.

## PATHWAYS TO GRADUATE AND PROFESSIONAL STUDY

From preferred admission consideration to integrated pathways that save you time, our partnerships with well-known institutions can provide you with a competitive edge.

We've partnered with Washington University School of Medicine in St. Louis, University of Missouri-St. Louis, and A.T. Still University to create pathways to graduate and professional education in occupational therapy, physical therapy, business administration and dental medicine.

Learn more at [uhsp.edu/graduate](https://uhsp.edu/graduate).

## DISCOVERY BEGINS HERE

At UHSP, we're committed to making innovative discoveries that aid in improving patient care.

Take part in leading-edge work, at any level, through meaningful research alongside expert faculty and clinicians.

Learn more at [uhsp.edu/research](https://uhsp.edu/research).

## PROGRAM OF STUDY

Below is a sample four-year plan of study for the Bachelor of Science in biomedical sciences program. Courses and time to complete the program varies based on each student's interests, course placements, earned credits and academic progress.

FIRST YEAR			
Fall Semester	16 credit hrs	Spring Semester	17 credit hrs
Introductory Biology I	4 credit hrs	Introductory Biology II	4 credit hrs
Chemical Structure and Physical Properties	4 credit hrs	Chemical Structure and Reactivity	4 credit hrs
Applied Calculus for Health Professionals	3 credit hrs	Statistics for Health Sciences	3 credit hrs
The Effective Writer	3 credit hrs	The Writer as Advocate	3 credit hrs
Foundations of Learning	2 credit hrs	Public Speaking	3 credit hrs
SOPHOMORE YEAR			
Fall Semester	14 credit hrs	Spring Semester	15 credit hrs
Human Anatomy	4 credit hrs	Human Physiology	4 credit hrs
Genetics	3 credit hrs	Microbiology	4 credit hrs
Organic Chemistry with Biological Emphasis	4 credit hrs	Fundamentals of Chemical Quantitative Analysis	4 credit hrs
Humanities & Fine Arts general education	3 credit hrs	Humanities & Fine Arts general education	3 credit hrs
JUNIOR YEAR			
Fall Semester	14 credit hrs	Spring Semester	16 credit hrs
Cell Biology	3 credit hrs	Advanced Biology Selective	3 credit hrs
Biochemistry	4 credit hrs	Physics II	4 credit hrs
Physics I	4 credit hrs	Humanities & Fine Arts general education	3 credit hrs
Principles of Psychology	3 credit hrs	Principles of Sociology	3 credit hrs
		300- or 400-level elective	3 credit hrs
SENIOR YEAR			
Fall Semester	16 credit hrs	Spring Semester	13 credit hrs
Molecular Biology and Genetics	4 credit hrs	Biology Seminar	1 credit hr
Advanced Biology Selective	3 credit hrs	Advanced Biology Selective	3 credit hrs
Advanced Biology Selective	3 credit hrs	Advanced Biology Selective	3 credit hrs
300- or 400-level elective	3 credit hrs	300- or 400-level elective	3 credit hrs
Elective	3 credit hrs	Elective	3 credit hrs
<b>TOTAL: 121 CREDIT HOURS</b>			

Students who choose to seek entry into the Doctor of Pharmacy program after completion of this degree will need to take ECON 3200 Microeconomics with a Health Care Emphasis (3 Cr.) as part of their electives to meet pharmacy prerequisites for entry.



## NEXT STEPS

To learn more about our Bachelor of Science in biomedical sciences or schedule a visit, contact the Office of Admissions at [admissions@uhsp.edu](mailto:admissions@uhsp.edu) or 314.446.8328.