



A VIEW INTO THE CELL

Ready to lay the foundation for a future in medicine and medical research?

When you pursue your Bachelor of Arts in Biochemistry at UHSP, you're not just earning a generic biochemistry degree. You are earning a degree specifically designed to integrate your interests in the study of life at the atomic and molecular levels with your passion to create and support a healthier and safer world.

A DEGREE THAT FLEXES

The unique design of our biochemistry degree means you benefit from a flexible curriculum that allows you to pursue a broad range of electives and explore possibilities outside of science and medicine after graduation, including law, business, government and education.

THE BIG PICTURE

At UHSP, you will develop skills to understand the chemistry associated with disease states, metabolism and pharmaceutical evaluation — the perfect foundation for graduate or advanced study in medicine, research, biotechnology and more!

You can even pursue your Master of Science in Medicinal Chemistry here at UHSP.

Learn more about professional pathways at uhsp.edu/pathways or available graduate programs at uhsp.edu/graduate.

A BRIGHT OUTLOOK

The St. Louis region has a rich industrial history in chemistry, biotech, medicine and agriculture, and the future is bright.

↑6% JOB GROWTH

Overall employment of chemists and materials scientists is projected to grow **6% from 2020 to 2030**, about as fast as the average for all occupations.

9,000+ JOB OPENINGS

An average of about **9,100 openings** for chemists and materials scientists are projected **each year over the decade**.

YOUR FUTURE IS READY WHEN YOU ARE

With your UHSP degree in hand, you will be prepared to take on the job market and put your degree to work.

- **Chemist**
- **Materials Scientist**
- **Laboratory Technician**
- **Medical Scientist**

UNDERGRADUATE RESEARCH WITHIN YOUR FIRST YEAR

Research is a part of who we are and what we do — that is why we offer several opportunities for students like you to gain valuable research experience alongside expert faculty and clinicians even in your first year as a student at UHSP.

- Uncover new avenues to treat pain and addiction
- Identify novel antidiabetic agents to support diabetes research
- Create safer analgesics for pain relief
- Study better ways to control invasive animal populations
- Develop treatments for life-threatening conditions

No matter what research you have the chance to take part in, you'll have the opportunity to share your findings and learn from your peers and faculty mentors during the annual Student Research Symposium and other events throughout the year.

Learn more at uhsp.edu/research.

Continued on reverse



Below is a sample four-year plan of study for the Bachelor of Arts in Biochemistry 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	15 credit hrs	Spring Semester	17 credit hrs
Introductory Biology I	4 credit hrs	Introductory Biology II	4 credit hrs
General Chemistry I	4 credit hrs	General Chemistry II	4 credit hrs
The Effective Writer	3 credit hrs	Writer as Advocate	3 credit hrs
Statistics for Health Sciences	3 credit hrs	Applied Calculus for Health Professionals	3 credit hrs
Foundations of Learning	1 credit hr	Fundamentals of Public Speaking	3 credit hrs
SOPHOMORE YEAR			
Fall Semester	17 credit hrs	Spring Semester	17 credit hrs
Organic Chemistry I	4 credit hrs	Organic Chemistry II	4 credit hrs
Physics I	4 credit hrs	Physics II	4 credit hrs
Social and Behavioral Sciences General Education	3 credit hrs	Applied Calculus II	3 credit hrs
Humanities and Fine Arts General Education	3 credit hrs	Humanities and Fine Arts General Education	3 credit hrs
Genetics	3 credit hrs	Elective	3 credit hrs
JUNIOR YEAR			
Fall Semester	14 credit hrs	Spring Semester	16 credit hrs
Biochemistry	4 credit hrs	Biochemistry II	3 credit hrs
Analytical Chemistry	4 credit hrs	Physical Chemistry	4 credit hrs
Social and Behavioral Sciences General Education	3 credit hrs	Upper-Level Writing Intensive Elective	3 credit hrs
Humanities and Fine Arts General Education	3 credit hrs	Elective	3 credit hrs
		Elective	3 credit hrs
SENIOR YEAR			
Fall Semester	13 credit hrs	Spring Semester	12 credit hrs
Advanced Biology or Chemistry Elective	4 credit hrs	Advanced Biology or Chemistry Elective	3 credit hrs
Molecular Biology and Genetics	3 credit hrs	Upper-Level Elective	3 credit hrs
Elective	3 credit hrs	Upper-Level Elective	3 credit hrs
Elective	3 credit hrs	Elective	3 credit hrs
TOTAL: 121 CREDIT HOURS			