

PRE-PHARMACY

If you have an interest in health care and helping people, becoming a pharmacist allows you to make a positive impact on patient's lives by ensuring the safe and effective use of medications. Pharmacy offers a variety of career opportunities, ranging from community pharmacy to clinical and research roles. You can choose a specialty that aligns with your interests, whether it's patient care, research, or industry-related work. To become a pharmacist, you'll first need an undergraduate degree before entering pharmacy school to earn your Doctor of Pharmacy degree (PharmD). At Wayne State, you can study chemical sciences or chemistry health sciences, and you'll be well-prepared for graduate school. Then with your Pharmacy degree, you will be ready to practice pharmacy in a wide range of settings: community pharmacies, hospitals, long-term care facilities, or the pharmaceutical industry.

fast facts

Recommended majors:

Chemistry/Chemical Sciences (B.A. or B.S.)
Chemistry/Health Sciences (B.A. or B.S.)

Department: Physical Sciences and Mathematics

School: Science, Health, and Criminal Justice

Suggested minors: Biology, Business Administration, Psychology, Public and Global Health, Spanish

focus on results

Skills Learned

- Chemical processes and materials
- Chemical experiment and design
- Modern equipment usage
- Analytical, organic, and inorganic chemistry
- Biochemistry
- Molecular genetics
- Human anatomy
- Probability and statistics
- University physics and experimentation
- Advanced lab techniques and management
- Critical thinking and problem-solving
- Research, observation, and analysis of data

Possible Careers

- Pharmacist
- Pharmacy technician
- Pharmacologist
- Pharmaceutical consultant
- Research scientist
- Product development scientist
- Pharmaceutical sales rep
- Medical sales representative
- Educator
- Regulatory officer
- Toxicologist
- Medical writer

Types of Employers

- Pharmacies
- Drug stores
- Medical research labs
- Hospitals and medical clinics
- Pharmaceutical companies
- Veterinary clinics
- Government / federal agencies
- Non-profit organizations
- Public health centers
- Forensic labs
- Schools, colleges, and universities
- Science and medicine publications

outside the classroom

Activities/Opportunities

- Peer mentoring and tutoring
- Rural Health Opportunities Program (RHOP)
- Service-Learning
- Study Abroad

Clubs/Organizations

- Biology Club
- Exercise is Medicine on Campus (EIM-OC)
- Health Science Club



Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

The following information is provided to guide you in the pre-professional program described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for choosing a major and registering for courses, please consult the current academic catalog and your advisor.

Suggested majors for Pre-Pharmacy

The following majors are recommended for students planning to attend pharmacy school. Additional electives may be recommended. Participation in the Pre-Pharmacy program at WSC does not guarantee acceptance to a school of medicine.

Chemistry/Chemical Sciences (B.A. or B.S.) – The Chemical Sciences degree program will prepare you for careers in medicine, pharmacy, research, and other clinical or laboratory settings.

Chemistry/Health Sciences (B.A. or B.S.) – The Health Sciences major offers a solid foundation in biology and chemistry, and emphasizes how these fields relate to careers in health and medicine.

Sample courses

Students may be advised to take the following courses while pursuing one of the recommended majors. Please consult with your advisor to draft a final plan of study, and be sure to check with your intended medical school to make sure you're meeting all prerequisite course requirements.

BIO 220 Human Anatomy.....	4
BIO 320 Molecular Genetics.....	4
BIO 340 Human Physiology.....	4
BIO 385 Microbiology.....	4
BIO 434 Advanced Cellular Biology.....	3
BIO 486 Immunology.....	3
CHE 107 General Chemistry II.....	4
CHE 305 Analytical Chemistry.....	4
CHE 315 Organic Chemistry II.....	4
CHE 380 Instrumental Analysis.....	4
CHE 426 Biochemistry II.....	3
CHE 393 Laboratory Techniques.....	1
PHY 302 University Physics II.....	4

chemistry faculty



Visit www.wsc.edu/physical-sciences-mathematics-department to learn more about the Department Physical Sciences and Mathematics.

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