

SKAGGS SCHOOL OF PHARMACY

Donna Beall, Interim Dean

The Skaggs School of Pharmacy, established in 1907 at Montana State College, was transferred to the University of Montana in 1913 and currently resides in the College of Health. The Skaggs School of Pharmacy has two departments: Pharmacy Practice and Biomedical and Pharmaceutical Sciences. The School offers undergraduate, graduate, and professional degree programs, including the Doctor of Pharmacy program which is fully accredited by the Accreditation Council for Pharmacy Education (<https://www.acpe-accredit.org/>).

Doctor of Pharmacy

Students interested in clinical practice as a licensed pharmacist should explore this program. The curriculum offered by the Skaggs School of Pharmacy consists of a six-year program leading to Doctor of Pharmacy (Pharm.D.) degree. The first two years, or pre-professional portion of the curriculum, are spent in studies of the basic biological and physical sciences, chemistry, and other pre-requisites. The final four years are in the professional program, which is divided into three years of didactic coursework followed by a year of direct practice in patient care through experiential courses in a variety of practice sites in the community. During the first three years of the professional program, students devote their time to the study of the biomedical and pharmaceutical sciences and pharmacy practice. Areas of study include biochemistry, microbiology, medicinal chemistry, pharmaceuticals, pharmacology, social behavioral and administrative sciences, and therapeutics. The final professional year is entirely experiential and designed to fully prepare students to enter the profession as pharmacist patient care providers. The professional curriculum includes required and elective coursework. Students admitted to the Doctor of Pharmacy program also have the opportunity to pursue a dual degree (M.B.A., M.P.H., M.S. in Pharmaceutical Sciences) or a B.S. in Pharmaceutical Sciences degree. Post graduate, pharmacy residency, or fellowship training is encouraged as those with an advanced degree or residency training are in demand for research, academic positions, and specialty advanced clinical practice positions.

To practice as a pharmacist in the United States, one must become a registered pharmacist. This requires completing practical experience under the direction of registered pharmacists, graduating with a Pharm.D. degree from an accredited Doctor of Pharmacy professional program, and passing both the NAPLEX and MPJE exams administered by the National Association of Boards of Pharmacy.

Career opportunities exist in the fields of community pharmacy, ambulatory care pharmacy, hospital and other institutional pharmacy, federal or state government service, public health agencies, and with the pharmaceutical industry. Those with advanced degrees or residency training are in demand for research positions, specialty clinical practice, and clinical faculty positions.

Pre-professional Program

Pre-professional (pre-pharmacy) curriculum, which requires a minimum of two years of full-time study, may be taken at any accredited college or university. Students at the University of Montana-Missoula may enter the pre-pharmacy program during any semester. It is recommended that students considering the Pharmacy professional program declare pre-pharmacy as their major as early as possible to ensure appropriate

advising. Upon designating Pre-Pharmacy as a major, students will be assigned an advisor from within the School of Pharmacy.

Professional Pharmacy Program

Students must apply for admission to the Pharm.D. professional program. Class size in the professional pharmacy program is restricted and admission to the program is competitive. For information on program requirements and the application procedure, refer to Prospective Students on the Pharmacy program website (<http://health.umt.edu/pharmacy/>).

B.S. in Pharmaceutical Sciences

Students interested in research instead of clinical practice should consider the Bachelor of Science degree in Pharmaceutical Sciences. The four-year non-professional option in the B.S. in Pharmaceutical Sciences (BSPS) program is intended for students with interests in research, pharmaceutical or biotechnical companies, or government agencies. A professional option for the degree is restricted to students already enrolled in the Doctor of Pharmacy program.

High School Preparation

In addition to the general University admission requirements, coursework in algebra, trigonometry, biology, chemistry, physics, and computers/information technology are recommended for either the Pharm.D. or BSPS degree.

Graduate Degrees in Pharmaceutical & Biomedical Sciences

The School offers graduate degree programs in several areas of pharmaceutical and biomedical sciences. These are research-oriented degrees designed to prepare graduates to create new knowledge and medications for future use in patient care. Students interested in a research career should review the specific requirements for seeking a graduate degree. These graduate-level programs provide education and training in pharmaceutical sciences and drug design, toxicology, and molecular genetics. Program graduates are well prepared for careers in academia, government, and industry.

Graduate Programs

Students interested in pursuing a graduate research degree should have completed a baccalaureate degree program. Students must apply to the graduate program. Information about the admission requirements and application process are posted on the Department of Biomedical and Pharmaceutical Sciences webpage (<http://health.umt.edu/biomed/graduate/default.php>).

Department of Pharmacy Practice

Vincent J. Colucci, Chair

The Department of Pharmacy Practice provides academic course work for the Doctor of Pharmacy degree, precept students during their experiential rotations, conducts research in the broad area of health care, scholarship of teaching and learning, and provides service to the profession of pharmacy and other health care disciplines.

Department of Biomedical and Pharmaceutical Sciences

Elizabeth A. Putnam, Chair

The Department of Biomedical and Pharmaceutical Sciences offers a curriculum in support of the Doctor of Pharmacy (Pharm.D.) degree and undergraduate and graduate programs in the biomedical and pharmaceutical sciences. Graduate degree programs include the M.S. and Ph.D. in Pharmaceutical Sciences and Drug Design and Toxicology.

Baccalaureate Degrees

- Bachelor of Science (B.S.) in Pharmaceutical Sciences with the following concentrations:
 - Professional (<http://catalog.umt.edu/colleges-schools-programs/health/skaggs-school-of-pharmacy/bs-pharmaceutical-sciences/>)
 - Non-Professional (<http://catalog.umt.edu/colleges-schools-programs/health/skaggs-school-of-pharmacy/bs-pharmaceutical-sciences-nonprofessional/>)

Professional Degrees

- Doctor of Pharmacy (PharmD) (<http://catalog.umt.edu/colleges-schools-programs/health/skaggs-school-of-pharmacy/doctor-of-pharmacy/>)

Graduate Degrees

- Master of Science (M.S.) in Medicinal Chemistry
- Master of Science (M.S.) in Pharmaceutical Sciences and Drug Design (<http://catalog.umt.edu/graduate/health/pharmacy/biomedical-pharmaceutical-sciences/pharmaceutical-sciences-drug-design-ms/>)
- Master of Science (M.S.) in Toxicology (<http://catalog.umt.edu/graduate/health/pharmacy/biomedical-pharmaceutical-sciences/toxicology-ms/>)
- Doctor of Philosophy (Ph.D.) in Medicinal Chemistry
- Doctor of Philosophy (Ph.D.) in Pharmaceutical Sciences and Drug Design (<http://catalog.umt.edu/graduate/health/pharmacy/biomedical-pharmaceutical-sciences/pharmaceutical-sciences-drug-design-phd/>)
- Doctor of Philosophy (Ph.D.) in Toxicology (<http://catalog.umt.edu/graduate/health/pharmacy/biomedical-pharmaceutical-sciences/toxicology-phd/>)