Professional Schools

College of Pharmacy, Duluth

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University of Minnesota College of Pharmacy, Duluth

Senior Associate Dean: Randall Seifert  
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Mission
The College of Pharmacy inspires and educates current and future pharmacists and scientists, engages in cutting-edge research, and leads practice development to improve the health of the people of Minnesota and the world.

Overview
The College of Pharmacy at the University of Minnesota is one of the outstanding pharmacy education and research institutions in the world. U.S. News & World Report ranks it as the third best college of pharmacy in the United States. Graduates of the four-year doctor of pharmacy (Pharm.D.) program enter the profession as well-qualified, highly sought-after pharmacists.

The Twin Cities campus of the college is housed in the Academic Health Center. The Duluth campus is housed in the Life Science Building, which was renovated in 2007 for the college and is adjacent to the Medical School, Duluth. Both campuses are designed for health education, research, and practice.

Pharmacy students have access to modern classrooms, laboratories, and more than 350,000 volumes of pharmacy resource materials. In addition, students have unique opportunities to experience rural/small town and urban pharmacy practice, interprofessional activities, and outreach to the community.

The college is fully accredited by the Accreditation Council for Pharmacy Education, 20 N. Clark St., Suite 2500, Chicago, IL 60602; 312-664-3575.

Doctor of Pharmacy Program
The Pharm.D. program prepares students to identify, resolve, and prevent drug-related problems. Students learn to provide patient care that achieves positive drug therapy outcomes that will improve the quality of a patient’s life. Before enrolling in the college, students complete pre-pharmacy coursework at an accredited college. The Pharm.D. program is offered on a full-time, day school basis at both the Duluth and Twin Cities campuses.

Pharm.D. Application Procedures
Applicants complete one application for entry into both the Twin Cities and Duluth campuses and indicate their campus choice on the application. Application materials are available from PharmCAS (www.pharmcas.org). Supplemental applications are available from the college’s Web site, www.pharmacy.umn.edu/pharmd.

The college operates a rolling admissions process, which means that applications are processed immediately when they are received. Under rolling admissions, positions in the college become limited closer to the deadline; hence, applicants are encouraged to submit applications well in advance of the deadline. Applications must be received by February 1 for the subsequent fall semester. The highest-ranking applicants according to admissions criteria will be invited to interview with a faculty member. Students are admitted into the college in the fall semester.

Pharm.D. Admission Requirements
Candidates must have a PharmCAS GPA of at least 3.00 or a GPA of 3.20 over the last 60 semester credits to qualify for admission. The required pre-pharmacy courses may be taken at any regionally accredited U.S. college. While the pre-pharmacy courses alone are sufficient to prepare a student for the Pharm.D. curriculum, most applicants admitted to the College of Pharmacy obtain a bachelor’s degree before entering the Pharm.D. program. Pre-pharmacy courses must be taken A-F and completed with a grade of at least C before enrollment.
In addition to required pre-pharmacy courses, students must complete at least 30 semester (45 quarter) credits of academic general education (non-science, non-mathematics, non-professional/vocational, non-physical education) courses. Pre-pharmacy credits earned in behavioral sciences, English composition, economics, and public speaking apply to the general education requirement.

Pre-Pharmacy Advising
The college’s Office of Student Services provides pre-pharmacy advising and answers questions about admission requirements and application procedures for the Pharm.D. program. Students may contact the Office of Student Services at two locations:

Duluth—College of Pharmacy, Duluth, 232 Life Science, 1110 Kirby Drive, Duluth, MN 55812; 218-726-6000; copd@d.umn.edu.

Twin Cities—College of Pharmacy, Office of Student Services, 3-160 Weaver-Densford Hall, 308 Harvard Street S.E., Minneapolis, MN 55455; 612-624-9490; pharmacy@umn.edu.

Pharm.D. Curriculum
The professional program’s graduates are prepared to enter pharmacy practice, advanced professional training programs, graduate education, and research. The program covers the chemical, biological, physical, social, and clinical sciences that underlie pharmacy. A common patient-care process is used to teach students how to meet drug-related needs at a patient-specific level. Students develop skills in problem solving, communication, and analytical thinking. The program emphasizes professional ethics, social responsibility, professional citizenship, and commitment to lifelong learning.

The first three years of the curriculum provide the fundamental components of pharmacy education needed to practice in a variety of settings. Beginning in the second year, students can take elective courses in specific areas of interest to round out their required courses. Students may focus on research.

The curriculum is subject to change.

For detailed information on pre-pharmacy course requirements, application, admissions criteria, and the curriculum, please see the College of Pharmacy Catalog or visit the college’s Web site at www.pharmacy.umn.edu/pharmd.

University of Minnesota Medical School Duluth

Senior Associate Dean: Gary Davis
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Admissions and Student Affairs
Associate Dean: Lillian A. Repesh
173 Medical School, 218-726-8872

Education and Curriculum
Associate Dean: Richard Hoffman
111 Medical School, 218-726-7581

Faculty Affairs
Associate Dean: George Trachte
313 Medical School, 218-726-8512

Research
Associate Dean: George J. Trachte
319 Medical School, 218-726-8975

Rural Health
Assistant Dean: Raymond G. Christensen
131 Medical School, 218-726-7572

Alumni Relations and Preceptorship Program
Director: James G. Boulger
234 Medical School, 218-726-8892

Animal Services
Director: Lorentz E. Wittmers
35 Medical School, 218-726-7931

Center of American Indian and Minority Health
Director: Joycelyn Dorscher
185 Medical School, 218-726-7235

Toxicology Graduate Program
Director: Ken Wallace
236 Medical School, 218-726-8892

Overview
The Medical School Duluth offers the first two years of the four-year medical school curriculum. It covers basic medical and clinical science studies with principal emphasis on the training of family physicians. Students who successfully complete the program in Duluth will automatically transfer on a non-competitive basis to complete the last two years of their doctor of medicine requirements at the University of Minnesota Medical School in Minneapolis.

The specific goals of the Medical School Duluth are to:
- increase the proportion of well-trained physicians who will enter family practice primary care;
- increase the number of physicians who will most likely enter practice in rural and non-urban areas of the state;
- provide excellent academic training for medical, graduate, and undergraduate students in the basic and clinical sciences;
- conduct and promote research programs for the advancement of knowledge in the health sciences and for service to the state.

To achieve these goals, many family practitioners, as well as other primary care physicians, are used as instructors and preceptors throughout the two years of study. These role models illustrate, both through their instruction and example,
the delivery of general and family medical care in urban, small community, and rural settings. The preceptorship program in family medicine is specifically designed to meet these goals and to augment the supply of family physicians in the northern regions of Minnesota.

Coursework taught by the Medical School Duluth faculty at the undergraduate and graduate levels is listed by department in the Course Descriptions section of this catalog.

For information on the school’s policies, admission procedures, and course offerings for medical students, consult the Medical School Duluth Catalog.

Departments

Anatomy, Microbiology, and Pathology

Division of Anatomy and Cell Biology
Professor: Arlen R. Severson; Associate Professors: Stephen W. Downing, Donna J. Forbes, Jon M. Holy, Lillian A. Repesh; Senior Research Associate: Richard L. Leino

Division of Medical Microbiology and Immunology
Professor: Richard J. Ziegler (division head); Associate Professor: Benjamin L. Clarke

Division of Pathology and Laboratory Medicine
Professor: Patrick C. J. Ward (division head); Teaching Assistant Professor: Kristine Krafts; Clinical Associate Professor: Geoffrey A. Witrak; Clinical Assistant Professors: Sara Lundeen, Thomas C. Nelson, Patrick A. Twomey, Daniel P. Vandersteen, Krista Warren, Geoffrey Witrak

Biochemistry and Molecular Biology
Professors: Lester R. Drewes (department head), Joseph R. Prohaska, Jean F. Regal, Kendall B. Wallace; Associate Professors: Subhash C. Basek, John Holy (joint with Anatomy and Cell Biology); Assistant Professors: Robert T. Cormier, Ken Dornfeld; Research Assistant Professor: Patricia Scott

Behavioral Sciences
Professors: Mustafa N. al’Absi, Richard M. Eisenberg, Barbara A. Elliott, Frederic W. Hafferty; Associate Professors: James G. Boulger (interim department head), Gary L. Davis Robert Gibson, Richard G. Hoffman, Jane Hovland; Clinical Associate Professor: David X. Swenson; Clinical Assistant Professors: Steven J. Bauer, Fred T. Friedman, Peter Miller, Steven J. Sutherland, Tracy A. Tomac; Clinical Instructor: Benjamin Wolfe

Family Medicine
Professors: Mustafa N. al’Absi, James Boulger (joint with Behavioral Sciences), Barbara A. Elliott; Associate Professors: Raymond G. Christensen, Alan Johns; Assistant Professors: Jeff Adams, Joycelyn Dorscher, Dan Mareck, Glenn H. Nordehn, Ruth Westra (department head); Instructor: Jennifer Pearson; Duluth Family Practice Center Faculty: Thomas Day (director), Ann Doberstein, David Hutchinson, Roger Waage

Physiology and Pharmacology

Division of Pharmacology
Professor: George J. Trachte; Associate Professor: Janet L. Fitzakerley

Division of Medical and Molecular Physiology
Professors: Lloyd Beck, B. Goran Hellekant, Lois J. Heller; Associate Professors: John Keener, Edward K. Stauffer, Lorentz E. Wittmers (department head); Assistant Professors: Jeffrey Gilbert, Teresa Rose-Hellekant