



*This is the Professional Schools section of the
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LIBRARY

College of Pharmacy

Associate Dean: Stephen Hoag, 386 Kirby Plaza, 1208 Kirby Drive, Duluth, MN 55812, 218-726-6010

College of Pharmacy Mission

The College of Pharmacy educates pharmacy practitioners to meet the pharmaceutical care needs of the people of Minnesota and the rest of society. The college is committed to improving human health through the development of new drugs and drug delivery systems, optimization of drug use, and improvement of pharmaceutical services. It is committed to advancing pharmaceutical technology to strengthen Minnesota's economy.

Overview

In fall 2003, the first class of UMD pharmacy students begin their program in newly renovated facilities in the old UMD library and the Kirby Plaza Building. The University's College of Pharmacy is recognized as one of the outstanding pharmacy education and research institutions in the world. It is highly ranked among the colleges of pharmacy in the United States by the *Gourman Report* and *U.S. News and World Report*. Graduates of the program enter the profession as well qualified, highly sought-after pharmacists.

The college's programs are supported by centers of excellence in diverse areas of pharmacy such as pharmaceuticals, medicinal chemistry, pharmacy management and economics, rural pharmacy, and pharmaceutical care. The college is fully accredited by the American Council on Pharmaceutical Education, 311 W. Superior Street, Chicago, IL 60610 (312-664-3575).

Doctor of Pharmacy (Pharm.D.) Program

The Pharm.D. program prepares students to identify, resolve, and prevent drug-related problems. Students learn to provide patient care to achieve positive drug therapy outcomes that improve the quality of a patient's life. Before enrolling in the college, students complete prepharmacy coursework at an accredited college.

Admissions

Application materials are available from PharmCAS at <www.pharmcas.org>, a national pharmacy application service. A supplementary application is also required and will be made available to applicants who have submitted a complete application with PharmCAS. January 1 is the deadline for filing all required application documents to be considered for admission. Applicants are notified of admission decisions at the end of March. Students are admitted to the college fall semester only.

Admission Requirements

The required overall GPA for admission is 3.00, and 3.60 for the early decision program.

Prepharmacy Courses—Students must have select coursework completed before entering the pharmacy program. These required prepharmacy courses may be taken at any accredited college and must be taken A-F and completed with a grade of C or better before enrollment. In addition to the prepharmacy course requirements, students must have completed at least 30 semester (45 quarter) credits of general education courses. Prepharmacy credits earned in behavioral sciences, English composition, economics, and public speaking apply toward the general education requirement. For detailed information, see the *College of Pharmacy Catalog* or the Web site at <www.pharmacy.umn.edu>.

English Language Requirements—Nonnative English-speaking applicants who have lived in the United States for fewer than eight years as of the first day of the term must submit test scores from the Test of Spoken English (TSE) and either the Test of English as a Foreign Language (TOEFL) or the Michigan English Language Assessment Battery (MELAB). See the *College of Pharmacy Catalog* or the pharmacy Web site at <www.pharmacy.umn.edu> for details.

Prepharmacy Advising

The Office of Student Services, with staff in both the Twin Cities and Duluth, can refer students to prepharmacy advisers throughout Minnesota and at nearby Wisconsin colleges. Prospective students may also e-mail phaross@umn.edu or visit the pharmacy Web site at <www.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 focus on their anticipated career pathway by taking courses in one of four emphasis areas: general pharmacotherapy, community and

ambulatory care, management, or research. The majority of emphasis-related courses are taken during the final two years.

Please consult the *College of Pharmacy Catalog* at <www.catalogs.umn.edu/phar/index.html> for more information on the Pharm.D. curriculum.

School of Medicine

Dean: Richard J. Ziegler, 117 School of Medicine Building, 218-726-7572

Associate Dean for Admissions and Student Affairs: Lillian A. Repesh, 173 School of Medicine Building, 218-726-8872

Assistant Dean for Rural Health: Raymond G. Christensen, 131 School of Medicine Building, 218-726-7572

Associate Dean for Education and Curriculum: Richard Hoffman, 111 School of Medicine Building, 218-726-7581

Associate Dean for Research: George J. Trachte, 319 School of Medicine Building, 218-726-8975

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

Director of Animal Services: M. Kent Froberg, 35 School of Medicine Building, 218-726-7931

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

Director Toxicology Graduate Program: Ken Wallace, 109 School of Medicine Building, 218-726-7581

The School of Medicine 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 at UMD will automatically transfer on a noncompetitive basis to complete the last two years of their M.D. requirements at the University of Minnesota Medical School in Minneapolis.

The specific goals of the School of Medicine, 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 nonurban 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 School of Medicine faculty at the undergraduate and graduate levels is listed by department in Course Descriptions.

For information on the school's policies, admission procedures, and course offerings to medical students, consult the [*School of Medicine, Duluth Catalog*](#).

Anatomy and Cell Biology

Professor: Arlen R. Severson (department head); *Associate Professors:* Stephen W. Downing, Donna J. Forbes, Jon M. Holy, Lillian A. Repesh; *Senior Research Associate:* Richard L. Leino

Behavioral Sciences

Professor: Frederic W. Hafferty; *Associate Professors:* Mustafa N. al'Absi, James G. Boulger, Gary L. Davis (department head), Richard G. Hoffman

Biochemistry and Molecular Biology

Professors: Lester R. Drewes (department head), Joseph R. Prohaska (director, Chemical Toxicology Research Center), Kendall B. Wallace; *Associate Professor:* Thomas E. Huntley; *Assistant Professors:* Robert T. Cormier, Edward Perkins

Family Medicine (FMed)

Professor: Barbara A. Elliott; *Associate Professors:* Raymond G. Christensen, Alan Johns, Tim Van Wave; *Assistant Professors:* Jeff Adams (interim department head), Joycelyn Dorscher, Glenn H. Nordehn, Ruth Westra

Medical Microbiology and Immunology

Professor: Richard J. Ziegler; *Associate Professors:* Benjamin L. Clarke, Omelan A. Lukasewycz (acting department head); *Assistant Professors:* Lucia P. Barker, Louise B. Hawley

Medical and Molecular Physiology

Professor: Lois J. Heller; *Associate Professors:* David E. Mohrman, Edward K. Stauffer, Lorentz E. Wittmers, Jr. (acting department head)

Medicine

Interdisciplinary course offerings taught by School of Medicine faculty.

Pathology and Laboratory Medicine

Professors: Arthur C. Aufderheide, Patrick C. J. Ward (department head); *Assistant Professor:* M. Kent Froberg

Pharmacology

Professors: Richard M. Eisenberg (department head), Jean F. Regal, George J. Trachte; *Associate Professor:* Edward T. Knych; *Assistant Professor:* Janet L. Fitzakerley