This is the Introduction, General Information, and Admission and Financial Considerations sections of the 1999-2001 University of Minnesota, Duluth School of Medicine Catalog

School of Medicine, Duluth

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University of Minnesota Mission Statement
The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; to the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation, and the world.

The University’s mission, carried out on multiple campuses and throughout the state, is threefold:

Research and Discovery
Generate and preserve knowledge, understanding, and creativity by conducting high-quality research, scholarship, and artistic activity that benefit students, scholars, and communities across the state, the nation, and the world.

Teaching and Learning
Share that knowledge, understanding, and creativity by providing a broad range of educational programs in a strong and diverse community of learners and teachers, and prepare graduate, professional, and undergraduate students, as well as non-degree-seeking students interested in continuing education and lifelong learning, for active roles in a multiracial and multicultural world.

Outreach and Public Service
Extend, apply, and exchange knowledge between the University and society by applying scholarly expertise to community problems, by helping organizations and individuals respond to their changing environments, and by making the knowledge and resources created and preserved at the University accessible to the citizens of the state, the nation, and the world.

In all of its activities, the University strives to sustain an open exchange of ideas in an environment that embodies the values of academic freedom, responsibility, integrity, and cooperation; that provides an atmosphere of mutual respect, free from racism, sexism, and other forms of prejudice and intolerance; that assists individuals, institutions, and communities in responding to a continuously changing world; that is conscious of and responsive to the needs of the many communities it is committed to serving; that creates and supports partnerships within the University, with other educational systems and institutions, and with communities to achieve common goals; and that inspires, sets high expectations for, and empowers the individuals within its community.

This biennial catalog, the basic guide to the School of Medicine at the Duluth campus of the University of Minnesota, should be kept handy for repeated reference. For more information on policies, procedures, and requirements, contact the Office of the Dean, 113 School of Medicine (726-7571); the Office of Admissions, 180 School of Medicine (726-8511); or the Office of Student Affairs, 174 School of Medicine (726-8873). The area code for Duluth is 218; the zip code, 55812.

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This catalog also is available in electronic format on the Internet and may be accessed via the World Wide Web.

Equal Opportunity—The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

In adhering to this policy, the University abides by the Minnesota Human Rights Act, Minnesota Statute Ch. 363; by the Federal Civil Rights Act, 42 U.S.C. 2000e; by the requirements of Title IX of the Education Amendments of 1972; by Sections 503 and 504 of the Rehabilitation Act of 1973; by the Americans With Disabilities Act of 1990; by Executive Order 11246, as amended; by 38 U.S.C. 2012, the Vietnam Era Veterans
Readjustment Assistance Act of 1972, as amended; and by other applicable statutes and regulations relating to equality of opportunity.

Inquiries regarding compliance may be directed to Deborah Petersen-Perlman, Director, Affirmative Action, University of Minnesota, Duluth, 255 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496 (218/726-6827) or Julie Sweitzer, Acting Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 419 Morrill Hall, 100 Church Street S.E., Minneapolis, MN 55455-0134 (612/624-9547).

Access to Student Educational Records—In accordance with regents’ policy on access to student records, information about a student generally may not be released to a third party without the student’s permission. (Exceptions under the law include state and federal educational and financial aid institutions.) The policy also permits students to review their educational records and to challenge the contents of those records.

Some student information—name, address, electronic (e-mail) address, telephone number, dates of enrollment and enrollment status (full time, part time, not enrolled, withdrawn and date of withdrawal), college and class, major, adviser, academic awards and honors received, and degrees earned—is considered public or directory information. Students may prevent the release of public information only during their terms of enrollment. To do so, they must notify the records office on their campus.

Students have the right to review their educational records. The regents’ policy, including a directory of student records, is available for review at the Registrar’s Office. Questions may be directed to the Registrar, 21 Campus Center Administration Building (218/726-8000).

Immunization—Students born after 1956 who take more than one University class are required under Minnesota law to submit an Immunization Record form.

The form, which is sent along with the official University acceptance letter, must be filled out and returned to the Office of Student Affairs within 45 days after the beginning of the first term of enrollment in order for students to continue registering for classes at the University. Complete instructions accompany the form.

Extracurricular Events—No extracurricular events requiring student participation may be scheduled from the beginning of study day to the end of finals week. Exceptions to this policy may be granted by the Senate Committee on Educational Policy. The Senate advises all faculty that any exemption granted pursuant to this policy shall be honored and that students who are unable to complete course requirements during finals week shall be provided an alternative and timely opportunity to do so.

Smoke-Free Campus Policy—Smoking is prohibited in all indoor facilities, including faculty and staff offices and the Kirby Student Center cafeteria.
Established in 1851 by an act of the Minnesota territorial legislature, the University of Minnesota is an autonomous body governed by a Board of Regents that enacts laws regulating the institution, controls expenditures, and acts on all staff changes.

The Board of Regents is composed of 12 members appointed by the state legislature. The president is the University’s chief executive officer, serves as ex officio to the Board of Regents, and is directly responsible to that board.

The University of Minnesota, Duluth (UMD) became a coordinate campus of the University of Minnesota by legislative act on July 1, 1947. It is administered by a chancellor who reports directly to the president of the University. The School of Medicine is unique in that while it is one of seven colleges on the Duluth campus, it also serves as one of the eight units of and reports to the Office of the Senior Vice President for Health Sciences for the Academic Health Center, which is based on the Minneapolis campus.

**History**

The first classes in medicine at the University began in 1888 when three of the four private or proprietary medical schools located in Minneapolis and St. Paul offered their charters and resources to the state. In accepting this offer, the regents assumed responsibility on behalf of the people of the state of Minnesota for medical education. In 1908 the remaining proprietary school was incorporated into the University of Minnesota Medical School, which continued until 1972 as the only medical school in Minnesota.

The inception and development of a school of medicine on the Duluth campus of the University of Minnesota can be traced back to 1966, when a group of concerned citizens and physicians organized themselves in Duluth under the leadership of S.H. Boyer, M.D. This group, the Northern Minnesota Council for Medical Education, was fully aware of the need for adequate health care facilities and personnel in northern Minnesota and Wisconsin. As a result of its strategic location, the Duluth-Superior area was championed as the site for future development of an area health science education center.

In response to the activities of the Northern Minnesota Council for Medical Education, the University of Minnesota Board of Regents published a statement on medical education in April 1968 proposing the establishment of a school of medicine in Duluth. In January 1969, a special advisory panel of medical school deans and medical economists recommended overwhelmingly that Duluth be the site for a second medical school in Minnesota.

As a result of the panel’s recommendation, the legislature in May 1969 appropriated funds to establish a basic science program for a medical curriculum at the Duluth campus of the University of Minnesota to increase the number of students choosing a career in family practice with a commitment to serve in a rural community. Then University president Malcolm Moos appointed an Ad Hoc Committee on Medical Education at the Duluth campus. Subsequently, the Carnegie Commission on Higher Education identified the Duluth-Superior area as one of nine regions in the United States where university health science centers should be established.

In the fall of 1970, Robert E. Carter, M.D. was appointed the first school’s dean. The first class had twenty-four students who enrolled in September 1972.

The UMD School of Medicine is accredited by the Liaison Committee on Medical Education as a free-standing, two-year medical school.

**Philosophy**

A two-year curriculum of basic medical and clinical sciences is offered with principal clinical emphasis on rural family medicine and its interrelationships with other medical specialties. Under arrangements with the University of Minnesota Medical School in Minneapolis, all students who successfully complete the two-year program at Duluth are accepted for transfer to the Medical School in Minneapolis to complete their M.D. degree requirements.

The objectives of the UMD School of Medicine are to

1. increase the proportion of well-trained physicians who will enter family medicine;
2. increase the number of physicians who will most likely enter practice in rural and nonurban areas of the state;
3. provide excellent academic training for medical, graduate, and undergraduate students in the basic and clinical sciences; and
4. conduct and promote research programs for the advancement of knowledge in the health sciences and for service to the state.

The first two of these objectives are accomplished by using many family medicine practitioners, as well as other primary care physicians, as preceptors and instructors throughout the two years of the program. These role models illustrate, both through their instruction and example, the delivery of medical care in rural communities and how that care integrates with medical services offered in urban settings. The rural preceptorship program in family medicine is specifically designed to meet these goals and to augment the supply of family physicians in the rural regions of Minnesota.

Administration

The University of Minnesota Academic Health Center is organized under the Office of the Senior Vice President for Health Sciences. Each of the various Academic Health Center units in Minneapolis, as well as the UMD School of Medicine, is headed by a dean. The administrative center for the UMD School of Medicine is located in 133 School of Medicine (218/726-7571).

Faculty

The teaching staff includes 45 full-time basic and clinical sciences faculty. The entire faculty constitutes the governing body responsible for policymaking. The school’s Educational Policy Committee includes student representatives. The responsibility for selecting each year’s entering class is delegated to the Committee on Admissions, whose members are chosen from the School of Medicine faculty, the other UMD faculties, community physicians, and non-physician representatives from the region.

The part-time and voluntary clinical sciences faculty consists of more than 280 area physicians representing all the major medical specialties. Their close interrelationship with the full-time faculty in presenting the curriculum ensures a practical as well as academic approach to training family physicians. With exposure to patients beginning the first semester, students become proficient in taking accurate medical histories and performing physical examinations under expert guidance. In addition, students spend ample time learning sciences basic to medicine.

Graduate Programs

The UMD School of Medicine faculty is actively involved in training graduate students. Programs leading to the doctor of philosophy degree are offered under the aegis of the corresponding programs on the Twin Cities campus and the University of Minnesota Graduate School in the following areas: biochemistry, molecular biology and biophysics; microbiology, immunology, and molecular pathobiology; cellular and integrative physiology; pharmacology; and toxicology. Cooperative programs at the master’s degree level are offered by these same departments. The School of Medicine faculty also participates in the graduate education of students in the Departments of Psychology, Sociology-Anthropology, Biology, and Chemistry on the UMD campus. Information about graduate programs at the UMD School of Medicine may be obtained by contacting the appropriate program at the UMD School of Medicine, 10 University Drive, Duluth, MN 55812-2487.

The School of Medicine is one of four cosponsors of the Family Practice Residency Program that is based at the Duluth Family Practice Center. Together, the Miller-Dwan Medical Center, St. Luke’s Hospital, St. Mary’s Medical Center, and the School of Medicine compose the Duluth Graduate Medical Education Council, Inc. For information on the residency program, write to Tom Day, M.D., Director, Duluth Family Practice Center, 330 North Eighth Avenue East, Duluth, MN 55805.

American Indian Programs

The Center of American Indian and Minority Health at the UMD School of Medicine offers four programs for American Indian students considering career possibilities in medicine, other health-care professions, and biomedical research.
The Center of Excellence for American Indian Medical Education addresses the problem of the poor health of American Indians. The center provides culturally sensitive medical education for Indians, prepares Indian physicians for practice in Indian communities, educates non-Indian health-care providers and medical educators about Indian health issues, and increases knowledge about Indian health and disease. The center also provides a junior faculty development program for the University of Minnesota Medical School, School of Nursing, and School of Public Health and conducts research regarding Indian health.

Funded by the Department of Health and Human Services, Division of Disadvantaged Assistance, Health Resources and Services Administration (HRSA), HRSA/ID34-MBO3016-01.

The Indians Into Medicine (INMED) program’s goal is to increase the number of Indian health professionals practicing in Indian communities. The target area includes Minnesota, Wisconsin, Michigan, and Iowa. The program provides a variety of opportunities for Indian students from the grade school level to the health professional school level.

Funded by U.S. Department of Health and Human Services, Public Health Service, and Indian Health Service, ISD000949-01.

Native Americans into Medicine (NAM) enables disadvantaged undergraduates to better assess their motivation for studying medicine. Aspects of anatomy, physiology, physical diagnosis, and other medically related subjects as well as math and science enrichment are offered during the six-week summer portion of the program.

Federally funded since 1973 by the Health Careers Opportunity Program, U.S. Department of Health and Human Services, Health Resources and Services Administration (HRSA), 5 D18 MB 01869-03.

The Minority High School Student Research Apprentice Program is a six-week summer program emphasizing biomedical laboratory research for American Indian high school students, who receive hands-on experience working in a laboratory with research faculty.

Federally funded by NCRR Minority Initiative, Center for Research Resources, National Institutes of Health, U.S. Public Health Service, IR25 RR12258-03.

Admission to the above programs is separate from admission to the UMD School of Medicine. Participation in these programs does not guarantee acceptance to the School of Medicine. For more information on any of these programs, contact Gerald Hill, M.D., Director, Center of American Indian and Minority Health, University of Minnesota, Duluth, 182 School of Medicine, 10 University Drive, Duluth, MN 553812-2487 (218/726-7235).

Facilities

The UMD School of Medicine moved into a new facility in March 1979. In 1997, an addition to this facility was opened that added student small group learning space, expanded faculty research laboratory facilities, administrative space for Admissions and Student Affairs personnel, and an expanded Learning Resource Center. The School of Medicine is fully contained in this building, which includes classrooms, teaching laboratories, student study and lounge areas, faculty and staff offices, and labs and animal facilities. The Health Science Library, which supports the school’s teaching and research activities, opened in March 1978.

The School of Medicine in Duluth has established affiliation agreements with St. Luke’s Hospital and Miller-Dwan and St. Mary’s Duluth Clinic Health System. These hospitals and clinical facilities provide medical students with access to an extremely diverse patient population from the northern regions of Minnesota, Wisconsin, and Michigan.

Health Science Library

Established in 1972 to serve the needs of the School of Medicine, the Health Science Library (HSL) moved into its own building in 1978. Currently, books and periodicals ordered by the School of Medicine as well as many of UMD’s science materials are shelved in HSL.

Reference service, database training and searching, and library instruction are available from the medical reference librarian, Martha Eberhart (225 HSL, 726-8733 or e-mail: meberhar@d.umn.edu). When the medical librarian is not available, help is provided at the reference desk in the main library. In addition, HSL has private study rooms for the medical students.
UMD library holdings of books, periodicals, and multimedia are accessed through the Internet at http://www.d.umn.edu/lib/. The search feature allows limiting to HSL holdings. In addition, the main library serves as a selective depository for government documents. Users can search for government information using FirstSearch GPO, GPO Access, and Minnesota Northstar.

The Electronic Resources section of the library Web page allows on-campus and off-campus access to many materials, provided students use the UMD communications software or access the material through the proxy server. Biomedsearch (Ovid Medline) provides access to medical information, mapping a subject to the MeSH headings (Medical Subject Headings) and allowing users to limit by subheadings. Students must use their X.500 username and e-mail address to access this database. Searchbank Expanded Academic Index provides access to core periodicals in all subject areas and approximately 32 percent of the records are full-text. Some of the databases available through FirstSearch include Medline, General Science Index, Health Reference Center, MDX Health Digest, Social Sciences Index, Contents 1st (table of contents of journals), Sociological Abstracts, and WorldCat (books and materials in more than 170,000 libraries, primarily in the United States). Also available are Biological Abstracts (BIOSIS), Current Contents, Psychological Abstracts (PsycLit), and Web search engines.

The library Web page also provides access to full-text journals, including table of contents and subject searching capabilities through IDEAL and the OCLC Electronic collections. Users may also search the holdings of the University of Minnesota Twin Cities libraries, Minnesota libraries (PALS), and the Library of Congress. For materials not owned by the UMD libraries, students can use the Interlibrary Loan form located on the library’s homepage or use the “Get/Display Item” option available on many of the FirstSearch databases.

Learning Resources Center

The Learning Resource Center (LRC) is a computer and multimedia instructional facility serving the School of Medicine. The center provides access to electronic instructional materials and references as well as software for general use. LRC computers are connected to a local fileserver network, the University-wide network, and the Internet. Access to LRC computer and audiovisual materials is limited to School of Medicine students, faculty, and staff, 24 hours a day.

UMD Health Services

UMD Health Services, located at 815 East University Circle, provides complete outpatient medical care for students. All professional services are prepaid by the student health services fee, and commonly used medications are available at cost. Laboratory and X-ray services are available at the clinic. After-hours medical emergencies are handled at the emergency rooms of St. Luke’s and St. Mary’s Hospitals; charges for these are the responsibility of students and/or their health insurers. Student health insurance is available at reasonable rates. Individual and group psychological counseling is also available. Special groups for adult children of alcoholics, stress management, smoking cessation, and self-esteem meet weekly. Chemical abuse information, assessment, and counseling is also available.

Housing

For housing information, contact the Housing Office, University of Minnesota, Duluth, 149 Lake Superior Hall, 2404 Oakland Avenue, Duluth, MN 55812-1107 (218/726-8178).

Student Government

Medical students elect student representatives who serve on faculty committees with voting privileges. Due to the small class size, a close student-faculty relationship exists, and all students are encouraged to contribute ideas for the development of the school. This is especially beneficial, because all the administrative officers of the School of Medicine are also members of the teaching faculty.

Medical students have representatives to national organizations (Association of American Medical Colleges, American Medical Student Association) and are encouraged to participate in all-campus activities and government.
Recreational Activities

All University recreational facilities are open to medical students, including the Kirby Student Center and physical education facilities. Medical students participate in the UMD intramural program and other informal recreational activities.

Duluth

Duluth is located on the westernmost shore of Lake Superior and shares its harbor with Superior, Wisconsin, forming the head of the Great Lakes-St. Lawrence Seaway system. Duluth is the gateway to America’s largest wilderness reserve and many of Minnesota’s most scenic vacation areas. The Spirit Mountain ski area, within the city limits of Duluth, is one of the country’s most well-equipped recreational facilities. Close to Duluth are the Boundary Waters Canoe Area Wilderness (part of the Superior National Forest), many major ski areas, and excellent hunting and fishing sites. The varied climate provides opportunity for participation in a broad range of outdoor sports. In addition, indoor facilities for sporting activities in Duluth include ice rinks, swimming pools, squash and handball courts, and gymnasiums. Musical and dramatic performances and art exhibits are offered by the Duluth Symphony Orchestra, Tweed Museum of Art, Duluth Playhouse (the nation’s oldest community theater), Duluth Art Institute, Minnesota Ballet, and Junior Symphony. Much of Duluth’s cultural entertainment is presented in the city’s Entertainment and Convention Center. The wide range of cultural activities and achievements adds another dimension to Duluth’s importance as a regional center in northern Minnesota.
Admission and Financial Considerations
Admission

The UMD School of Medicine considers applicants who are legal residents of Minnesota; Ashland, Bayfield, Burnett, Douglas, Iron, Price, Sawyer, and Washburn counties in Wisconsin; and the Canadian province of Manitoba who wish to become family practice physicians in a rural setting. Applicants from other states, except for underrepresented minorities, are not considered for admission. Transfer students also are not admitted. Applicants must be U.S. citizens or have permanent resident status and must have completed all requirements for a baccalaureate degree by the time of possible matriculation.

In evaluating applicants, the Committee on Admissions (COA) considers the entire academic record, the results of the Medical College Admissions Test (MCAT), supplemental information provided by the applicant, letters of evaluation, and personal interviews. Applicants also are evaluated on factors such as motivation, interpersonal sensitivity, breadth of interests, and attitudinal characteristics considered essential for medical practice. Two of the most significant qualifications for applicants are a demonstrated capacity for excellence in scholarship in an academic discipline of their own choice, and personal and background traits that indicate a high potential for becoming a family physician in a small town/rural setting.

Required Courses

Applicants must complete the following before matriculation.

- One quarter or one semester of biochemistry
- Two quarters or two semesters of general biology (with labs)
- Three quarters or two semesters of general physics (with labs)
- Two quarters or two semesters of general chemistry (with labs)
- Two quarters or two semesters of organic chemistry (with labs)
- Three quarters or two semesters of English composition or a combination of courses with a considerable writing component
- Mathematics through calculus or an upper division statistics course

- Three quarters or two semesters of humanities, including at least one upper division course
- Three quarters or two semesters of behavioral sciences, including at least one upper division course.

Beyond these requirements, applicants are strongly encouraged to broaden their education by taking courses in non-science areas that will provide intellectual stimulation and challenge.

Application Procedures

The UMD School of Medicine follows the recommended application procedures of the Association of American Medical Colleges (AAMC). These procedures are detailed in the most recent Medical School Admission Requirements, published annually in April by the AAMC. Anyone interested in attending medical school should consult this book because it contains useful information about all U.S. medical schools. It is available in most college libraries and counseling offices. For a personal copy, send $14 (which includes shipping and handling) to AAMC, 2501 M Street, Washington, DC 20037-1300.

The AAMC sponsors the American Medical College Application Service (AMCAS), a centralized application processing service for applicants to participating U.S. medical schools. Like the other participating schools, the School of Medicine is completely autonomous in reaching its own admissions decisions. All applicants must follow the steps listed below as closely as possible. Reapplicants must submit a new application each year.

1. Take the Medical College Admissions Test (MCAT). If test scores are older than three years, the MCAT must be retaken. For an application and listing of test dates and centers, write to MCAT Registration, American College Testing Program, 2255 North Dubuque Road, P.O. Box 414, Iowa City, IA 52243.

   The MCAT has subtests in four sections: biological sciences, physical sciences, verbal reasoning, and a writing sample. Your scores are automatically sent to all schools you designate on your AMCAS application.

2. Obtain an AMCAS application packet by sending an AMCAS Application Request Card, available from any participating medical school and most premedical advisers.
3. Ask each U.S. college and university you attended to forward official transcripts of your coursework directly to AMCAS. Until AMCAS receives both your application and all required official transcripts, no processing will occur. AMCAS must receive the transcripts no later than two weeks after the November 15 application deadline.

4. Return your completed application to AMCAS, not to the School of Medicine, as soon as possible after June 1 but no later than November 15. Applications received by AMCAS before June 1 will be returned to the applicants. Applications received by AMCAS after November 15 will not be processed. Note that November 15 is a receipt, not postmark, date; no exceptions to this deadline are granted. It is best to mail the application early, preferably by November 1.

5. When the application has been received from AMCAS, residency requirements are reviewed. Screening for residency constitutes a preliminary review process that also includes evaluation of the applicant’s GPA and MCAT scores. After this preliminary screening, supplemental information is requested.

Return your completed supplemental information form within one month after receiving it (otherwise your application will not be considered further), along with the $50 application fee. This form, of major importance in the evaluation process, expands on the information in your AMCAS application. You are asked to provide a brief residential history and answer a set of open-ended questions on special experiences, attitudes, and values. The questions require introspection and self-knowledge and are intended to provide a greater understanding of your motivation and life experiences to the COA.

Return your completed prerequisite coursework form. Because course names vary greatly by college, this form helps determine which requirements you may have met. If you are accepted to and decide to attend the School of Medicine, it is also your responsibility to send final transcripts of your college work as soon as they are available.

Clear and brief answers to the supplemental information form questions are appreciated. If you are reapplying, substantial improvement in areas considered weaknesses on the previous application is recommended.

Letters of evaluation from faculty and other persons who know you well are to be forwarded to the Office of Admissions by your evaluators after they have been requested.

**Evaluation Process**

The UMD School of Medicine’s COA thoroughly evaluates the information in your AMCAS application and all supplemental materials. If the evaluation is favorable, you are invited to come to the School of Medicine for two personal interviews, each with a COA member. All appointments for interviews are made by the Office of Admissions, 180 School of Medicine (218/726-8511), and scheduling them is not your responsibility.

Applications are considered ready for final review by the COA after both interviews are completed. The COA then decides to place applicants into one of three categories:

- **Accepted** applicants are offered a place in the incoming class as soon as possible.
- **Acceptable** applicants form a group of candidates that will be rank-ordered for an alternate list at the end of the admissions cycle, normally in mid-April. As withdrawals from previous acceptances occur, applicants on the alternate list are offered a place in the incoming class.
- Applicants in the Not Accepted category receive a letter to that effect as soon as possible.

**Deferred Acceptance**

Any accepted applicant may request, by June 1, to defer matriculation for one academic year only. Reasons need not be specified. After June 1, deferrals are granted at the discretion of the associate dean for admissions or her representative. Each person selecting deferral must reapply through the Early Decision Program (described below), designating only the UMD School of Medicine.

**Early Decision Program**

The UMD School of Medicine participates in the Early Decision Program (EDP), which is operated by AMCAS and requires interested applicants to

1. apply to only one U.S. medical school. AMCAS must receive the application and all official transcripts by August 1. The MCAT must be taken before the application is submitted to AMCAS (applicants who are reapplying after one year’s deferral do not need to retake the MCAT—see Deferred Acceptance above).
2. provide the school with required supplemental information by September 1.
3. attend that school if offered a place there under EDP.

EDP allows applicants to receive a prompt admission decision from the school by October 1; be reconsidered, if the COA elects, in the regular applicant pool if not accepted under EDP; and arrange to apply to additional schools if not accepted under EDP.

Technical Standards for Admission
The M.D. is a broad degree affirming general knowledge in all fields of medicine and the basic skills required to practice it. Technical standards provide reasonable assurance that candidates can complete the entire course of study and participate fully in all aspects of medical training. Patient safety is a major factor in establishing requirements for physical, cognitive, and emotional capabilities of candidates for admission and graduation.

The following technical standards are a prerequisite for admission to and graduation from the University of Minnesota Medical School. All applicants and graduates must meet all prescribed technical standards, with or without reasonable accommodations.

1. Physical Requirements—After reasonable training and experience, candidates must be able to
   • perform anatomic dissections of the human cadaver.
   • observe demonstrations and perform experiments, including, but not limited to, operations on living animals (e.g., in physiology courses).
   • study microorganisms and tissues in normal and pathologic states, including manipulations necessary for such studies (e.g., streaking a bacterial plate and transferring bacteria aseptically from one test to another). Observation of gross and microscopic structures requires vision and touch and is enhanced by the sense of smell.
   • perform a complete physical examination, including observation, palpation, and percussion and auscultation, using instruments, including, but not limited to, a stethoscope, ophthalmoscope, otoscope, and sphygmomanometer.
   • perform clinical procedures, including, but not limited to, pelvic examination, digital rectal examination, drawing blood from veins and arteries and giving intravenous injections, basic cardiopulmonary life support, spinal puncture, and simple obstetrical procedures.
   • perform basic laboratory tests using a calculator and computer, read an EKG, and interpret some common imaging tests.
   • move in the clinical setting so as to act quickly in emergencies.

2. Communication—This includes speech and writing. Candidates must be able to
   • communicate in English with, receive communication from, and observe patients to elicit information; describe changes in mood, activity, and posture; and perceive nonverbal affective and gestural communication.
   • obtain a medical history in a timely fashion from a variety of patients and communicate effectively, efficiently, and sensitively with all members of the health-care team, other professionals, patients, and their families.
   • understand common medical records, laboratory reports, and pharmacological prescriptions.

3. Intellectual-Conceptual, Integrative, and Quantitative Abilities—Candidates must be able to
   • assimilate information presented in formal lectures, small group discussions, and individual teaching and clinical settings.
   • measure, calculate, reason, analyze, and synthesize information across modalities, understand three-dimensional spatial relationships among structures and logical sequential relationships among events, and form and test hypotheses for effective and timely problem solving in diagnosing and treating patients.

4. Behavioral and Social Attributes—Certain characteristics are especially important in the clinical years, including attendance, integrity, honesty, conscientiousness in work, good knowledge of patients, and teamwork. Candidates must
• accept responsibility for learning.
• exercise good judgment.
• promptly complete all responsibilities necessary for sensitive and effective relationships with patients and others.
• be able to tolerate physically taxing workloads, function effectively under stress, adapt to changing environments, and be flexible.

5. Safety—The University must consider the safety and welfare of patients and others. Should a candidate have a condition that would place patients or others at significant risk, that condition may be the basis for denial of admission or expulsion from the school.

6. Evaluations—The University may require candidates to undergo an occupational skills evaluation at the school’s expense to determine if they meet the technical standards listed above.

Applicants or medical students with disabilities may contact the associate dean for admissions and student affairs (218/726-8511).

Advanced Standing
The School of Medicine selects applicants only for the first year of medical studies.

Minorities
The University of Minnesota is committed to providing equal opportunities to students from minority groups and from educationally disadvantaged backgrounds. In accord with the regents’ statement of January 12, 1979, the School of Medicine encourages members of professionally underrepresented minority groups to seek admission to the School of Medicine.

Immunization Requirements
Minnesota law requires all students born after 1956 and registered for more than one class during a full academic term to show proof of immunization received against measles, rubella, mumps, diphtheria, and tetanus. The statement must include month and year of each immunization. All Minnesota state colleges and universities are covered by this law. The most recent recommendation of the Advisory Committee on Immunization Practices is that college students receive two doses of MMR (measles, mumps, rubella) and have a DT (diphtheria, tetanus) booster during the ten years before first registering at the University. Proof of immunization is not required if the student submits a statement signed by a physician showing that

• for medical reasons, the student did not receive an immunization; or
• the student has experienced the natural disease against which the immunization protects; or
• a laboratory has confirmed the presence of adequate immunity; or
• the student submits a notarized statement that the student has not been immunized as required because of the student’s conscientiously held beliefs.

Residence and Reciprocity

Residence—Because the University is a state institution, Minnesota residents pay lower tuition than nonresidents and, in many programs, receive priority consideration for admission. To qualify for resident status, students must reside in Minnesota for at least one calendar year before the first day of class attendance. For more information, contact the Resident Classification and Reciprocity Office, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455-0213 (612/625-6330), or the residency office on your campus.

Reciprocity—The University has reciprocity agreements with North Dakota, South Dakota, Wisconsin, and Manitoba. If you are a resident of any of these states or this province, you may qualify for reciprocity tuition rates, which are lower than nonresident tuition rates and, in some cases, comparable to resident rates. There are some exceptions: Wisconsin students enrolled in the School of Dentistry, Medical School, College of Veterinary Medicine, or School of Medicine, Duluth are not eligible for reciprocity. For more information, contact the Resident Classification and Reciprocity Office, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455-0213 (612/625-6330), or the residency office on your campus.
Tuition and Fees

UMD medical students attend two semesters and a summer session their first year and two semesters their second year. For the 1999-2000 academic year, resident tuition at the UMD School of Medicine is $5,992 per term; nonresident tuition is $11,132 per term. In addition, all students must pay a service fee of approximately $240 per term. All fees are subject to change.

Students must purchase books, instruments, and other necessary equipment. Textbooks cost about $1,300 the first year and are available at the UMD Bookstore, 175 Kirby Student Center. Ophthalmoscopes, otoscopes, white coats, laboratory coats for gross anatomy, and other necessary items are purchased in the first year of medical school and cost about $600.

Optional hospital insurance is available. For the 1998-99 academic year, the annual individual rate (including summer) was $644, plus $1,776 for spouses and $1,196 for all children. Details about this coverage are described in a brochure available in 139 Darland Administration Building or UMD Health Services.

Minnesota Medical Foundation

The Minnesota Medical Foundation (MMF) is a nonprofit organization operating in support of the University’s medical schools. The foundation receives and distributes gifts and grants to be used for various purposes by the School of Medicine and is itself supported by gifts from its members and friends. MMF offices, in 535 Diehl Hall on the Minneapolis campus (612/625-1440), are supervised by Brad Choate, executive director and chief executive officer.

MMF’s scholarship aid for students is administered under a policy of reciprocal giving and is based solely on need. Students selected for MMF scholarship aid pledge to repay their scholarships to perpetuate the fund for the benefit of future medical students.

The foundation also administers several student loan funds. The Emergency Loan Fund provides cash loans, available on short notice, for up to 90 days, with no interest or carrying charges. A medical student loan program is sponsored by family practitioners from northern Minnesota and Wisconsin. The foundation’s long-term loan programs allow a student five years to repay after completing medical school.

Student Employment

Medical students are strongly discouraged from engaging in work outside their medical school studies. Prospective students should carefully scrutinize their projected financial needs through the years of medical school and make appropriate arrangements to meet these needs through the help of parents, personal savings, and loans. Medical school is demanding and it is to the student’s disadvantage to diminish this critical and important experience with outside commitments.

Scholarships and Loans

Financial aid is available in the form of regional scholarships, federal loans to students in the health professions, special loan funds, and designated prizes. With few exceptions, students must be accepted for admission and be regularly enrolled to qualify for these funds. Most financial assistance is administered by the University’s Office of Student Financial Aid or by the Minnesota Medical Foundation (see below). Sources of financial aid are limited and generally available only to those who demonstrate financial need.