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.
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, 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 freestanding, 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 mission of the School of Medicine Duluth is to increase the number of family medicine and other primary care physicians who practice in rural Minnesota and American Indian communities and to advance knowledge in biomedical sciences and rural and American Indian health by providing high quality
academic and clinical education and distinguished research programs for professional, graduate, and undergraduate students.

The medical education 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 40 full-time basic and clinical sciences faculty. The entire faculty constitutes the governing body responsible for policy making. 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 300 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, 1035 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 three programs for American Indian students considering career possibilities in medicine and other health care professions.

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 Division of Health Professions Diversity, Bureau of Health Professions, Health Resources and Services Administration, Department of Health and Human Services (HRSA), HRSA/5D34-MBO3016.

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.

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, Division of Health Professions Diversity, Bureau of Health Professions, Health Resources and Services Administration, Department of Health and Human Services (HRSA), 5 D18 HP02951.

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 Johanna Clevenger, M.D., Director, Center of American Indian and Minority Health, University of Minnesota Duluth, 182 School of Medicine, 1035 University Drive, Duluth, MN 55812-2487 (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 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.

UMD Library

In August 2000 all contents from the Health Science Library were transferred to the new UMD Library building. The health sciences collection has been strengthened considerably by the addition of full-text electronic resources that enable students and faculty to access library materials from their office, home, or lab. If students prefer studying in the library they will find a beautiful and functional building containing nearly 300 new computers, 20 state-of-the-art group study rooms for private study, and carrels equipped with connections for laptop computers.

Reference service, database training and searching, and library instruction are available from the life sciences librarian, Tom Connell (L 268; 218-726-7896; connellt@d.umn.edu). If the life sciences librarian is not available, assistance can be found at the reference desk on the second floor of the library (218-726-8100). The reference desk is open September through May, 9:00 a.m. to 9:00 p.m., Monday through Thursday, and 9:00 a.m. to 5:00 p.m. on Friday. It is also open on weekends.

The library’s books, journals, videos, and other materials can be located by searching the online library catalog, available on the Web at <www.d.umn.edu/lib>. The catalog presents the location and status of an item, whether, for example, a book is checked out or on the shelf.
Search options enable patrons to search health sciences materials exclusively. Items not owned by the library may be requested, free of charge, by submitting an interlibrary loan request.

Electronic sources of health sciences information are accessed from the library’s electronic resources Web site. Patrons will find a select list of indexes and databases that focus on medicine. Medline, the world’s premier index of medical research is located here as is MD Consult, a full-content database covering all aspects of current clinical information. MD Consult provides instant access to 35 clinical reference books, 52 medical journals, 600 clinical practice guidelines and more. Additional databases provide complete access to 1100 Elsevier Science journals and 300 Wiley publications.

For additional information, visit the library Web site at <www.d.umn.edu/lib>. To arrange a tour of the new library or for an overview of library services contact Tom Connell, life sciences librarian (L 268; 218-726-7896; connelLt@d.umn.edu).

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 file server 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, 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 or other primary care 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 practice physician or other primary care specialist 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 $30 (which includes shipping and handling) to AAMC, 2450 N Street NW, Washington, DC 20037.

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.

   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. Begin the AMCAS application process online at <www.aamc.org/students/amcas/start.htm>.

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.
Admission and Financial Considerations

4. Submit your completed application to AMCAS, as soon as possible after June 1 but no later than November 15.

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 $75 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 Delayed Matriculation Process, 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.
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 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

- 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 Chair, 139 Darland Administration Building, 10 University Drive, Duluth, MN 55812 (218-726-7849).

**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 Chair, 139 Darland Administration Building, 10 University Drive, Duluth, MN 55812 (218-726-7849).

**Tuition and Fees**

UMD medical students attend three semesters their first year and two semesters their second year. For the 2001-2002 academic year, resident tuition at the UMD School of Medicine is $7,205.00 per term; nonresident tuition is $13,385.39 per term. In addition, all students must pay a service fee of approximately $252 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 2001-2002 academic year, the annual individual rate (including summer) is $631, plus $1,755 for spouses and $1,169 for all children. Details about this coverage are described in a brochure available in 184 Darland Administration Building or UMD Health Services.

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.

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, 200 Oak Street S.E., Suite 300, 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.