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Real-world thinking.



**MINNESOTA STATE**  
**UNIVERSITY**  
MANKATO

## PRE-MEDICINE *College of Science, Engineering & Technology*

### WHAT PROGRAMS DO WE OFFER?

Pre-Medicine is not a certified major discipline. Acceptance into medical school usually requires an undergraduate degree (in a related major) with a set of core requirements from the natural sciences and mathematics. Students may choose from a variety of undergraduate majors.

### CAREER OPPORTUNITIES AVAILABLE FOR STUDENTS COMPLETING THIS PROGRAM

The full practice of medicine requires a Doctor of Medicine (MD) or Doctor of Osteopathic (DO) degree. Physicians routinely perform physical examinations, diagnose illnesses, and treat diseases and injuries. Specialties include family practice, surgery, internal medicine, cardiology, psychiatry, dermatology, etc. In addition to four years of medical school, specialties require an additional three to seven years of training. In 2018, the median annual wage was \$170,000 to \$220,000 per year.

### WHAT CAN I DO WITH THIS DEGREE?

#### Academic

You can apply for admission to medical school when you complete your degree with a strong academic record and have completed the Medical College Admissions Test (MCAT) exam with a competitive score.

#### Careers

Medicine is a rapidly changing, expanding profession. Traditionally, medical doctors have earned a more than adequate income, and a successful practice provides considerable financial security. Medicine also offers job security as demand for health care will always exist.

### PROGRAM QUALITY INDICATORS

#### Accreditations

We are an NCA accredited University with accredited majors.

#### Faculty credentials

The science core requirements for medical school are taught by professors with terminal (Ph.D.) degrees.

#### Faculty grants and achievements

Faculty are supported in their research by external funding from NIH, NSF, and private foundations, as well as internal funding from Faculty Research Funds.

#### Alumni successes

Many successful physicians in a diversity of specialties have received their undergraduate degrees from Minnesota State Mankato. To our knowledge all Minnesota State Mankato graduates who have entered medical school have successfully completed their training with few exceptions. Minnesota State Mankato students score at or above national averages.

### STUDENT EXPERIENCE/ PROGRAM REQUIREMENTS

#### Faculty/student ratio

Labs are generally small: 1:20. Upper division courses ratio is 1:20.

#### Specialized equipment available

Electron microscopes, electrophoresis units, ultracentrifuges, gcms, spectrophotometers.

#### Unique program components and internships

Students are encouraged to enroll in internships and independent research projects.

#### Scholarships

Approximately 50 scholarships in the College of Science, Engineering and Technology are available to upper level students.

#### Student/faculty opportunities for collaboration

Students receive advising and encouragement from their faculty advisors.

#### Clubs and organizations

- Pre-Med Club
- Biology Club
- Chemistry Club
- Thibeta Biological National Honor's Society

#### Undergraduate research activity

A particular benefit for students at Minnesota State University, Mankato, is the opportunity to engage in independent research with faculty as an undergraduate and to participate in the Undergraduate Research Conference.

### BACKGROUND PREPARATION

Students planning for a career in medicine are urged to complete four years of mathematics, physics, chemistry, and biology in high school. Participating in volunteer services that provide insights into the medical and health care professions is encouraged.

## COURSE RECOMMENDATIONS

The recommended courses outlined below are based on preparation requirements for the University of Minnesota (Twin Cities) Medical School and for the Medical College Admission Test (MCAT). Specific requirements may vary among Medical Schools. Students are encouraged to investigate by consulting the appropriate websites.

Although no specific bachelors degree is required for medical school admission, it is typical for pre-med students at Minnesota State Mankato to complete degree majors in Biomedical Science, Biochemistry, Chemistry or Physics, since these majors incorporate many of the recommended preparation courses:

Biology: BIOL 105, 106, 211, 220, 270, 316, 320, 330, 435, 474

Chemistry: CHEM 201, 202, 322, 323, 360

Communications: ENG 101, 271W

Mathematics & Statistics: MATH 121 and HLTH 475

Physics: PHYS 211 and 212 or 221 and 222

Social & Behavioral Science: SOC 101 and PSYC 101

Plus one Upper Division (300/400) level

Writing Intensive Humanities **or** Social Science

Admission to medical school is highly competitive and a strong undergraduate GPA is required.

## FOR MORE INFORMATION PLEASE CONTACT

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### Email

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### Website

<https://cset.mnsu.edu/cset-advising-center/pre-professional/>

You are encouraged to visit the campus.

To arrange for a visit, please call:

Office of Admissions: 507-389-1822

Toll-free: 800-722-0544

## GO PRO LEARNING COMMUNITY

If you are entering college planning to continue advanced education by attending medical school, veterinary school, physical therapy school, or other professional programs, your path could be complex and challenging. The Pre-Professional Sciences learning community is here to help! The learning community will offer you support in your course work by having group study session throughout the week with others in your classes. You will also have the opportunity to have your questions answered through your interaction with faculty from these departments. The learning community is here to help guide you in the process of pursuing these demanding programs.

### WHAT YOU'LL TAKE:

As a part of the learning community, you'll be enrolled in the following courses:

#### Fall Semester

SOC 101: Introduction to Sociology (3 credits)

FYEX 100: First Year Seminar (1 credit)

BIOL 105: General Biology I (4 credits)

#### Spring Semester

PSYC 101: Introduction to Psychological Science (4 credits)

CMST 102: Public Speaking (3 credits)

BIOL 106: General Biology II (4 credits)

By enrolling in 1.5 credits or more per semester, you are more likely to complete your Bachelor's degree in 4 years.

### WHERE YOU'LL LIVE:

Students will be assigned to renovated double rooms (Crawford A, B, D, McElroy E, F, H or Preska I). Renovated rooms have in-room air-conditioning and share a community bathroom with the floor. Learning Community students are housed with other students in the same learning community.

For additional information about course requirements, please visit <http://www.mnsu.edu/supersite/academics/bulletins/>

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