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**MINNESOTA STATE
UNIVERSITY**
MANKATO

PRE-PHARMACY *College of Science, Engineering & Technology*

WHAT DEGREES AND PROGRAMS DO WE OFFER?

Students interested in the requirements for pharmacy school should consult catalogs from the pharmacy colleges of their choice. Some pharmacy programs consist of two years of pre-pharmacy training followed by three or four years at a university school of pharmacy, however, most students will complete a Bachelors degree prior to attending pharmacy school.

Each pharmacy college has its specific pre-pharmacy requirements. Students should consult with the pre-pharmacy advisor for suggested electives and any program changes required.

NATURE OF THE PROFESSION

Pharmacists dispense drugs and medicines prescribed by medical and dental practitioners and counsel people on the use of prescription and non-prescription drugs.

This requires a thorough understanding of the use, composition, and effect of drugs as well as the ability to perform tests that will evaluate the potency or purity of a drug.

Most pharmacists are required to keep careful records of patient medication distribution. Other record keeping duties may be involved if the pharmacist is in charge of buying and selling merchandise or supervising personnel. All pharmacists are expected to update their knowledge regarding the medical use of drugs and should be available to physicians for consultation.

PLACES OF EMPLOYMENT

Nearly half of all licensed pharmacists own their own pharmacies. Those pharmacists who are salaried work in community pharmacies, hospitals, pharmaceutical manufacturing, and government agencies. Pharmacists are also called upon for consulting services by nursing homes and other health care facilities. Persons with experience in pharmacy may turn to teaching, research and development, sales, writing and editing of technical publications, or administration. Some pharmacists combine their training with legal knowledge for jobs as patent lawyers or consultants on pharmaceutical and drug laws.

EMPLOYMENT POTENTIAL

The number of students graduating from schools of pharmacy has risen rapidly in recent years, increasing the competition for jobs at the entry level. Average growth is expected, however, and as the demand for convenient services increases, the establishment of new pharmacies may be anticipated in small towns and rural areas. Demand for pharmacies will also be affected by population growth, increased life expectancy and the rising standard of health care. The median salary for pharmacists in 2016 was \$122,230

STUDENT EXPERIENCES

Unique program components

Students are encouraged to enroll in internships and independent research projects; opportunities are available to present research in the Undergraduate Research Conference.

Clubs and Organizations

- Pre-Pharmacy Club
- Biology Club
- Chemistry Club

Scholarships

Various scholarships are available to pre-pharmacy students through the Chemistry department and the College of Science, Engineering and Technology.

BACKGROUND PREPARATION

Students planning for a career in pharmacy are urged to complete high school courses in mathematics, biology, chemistry and physics. Participation in medical and health care experiences are encouraged.

COURSE RECOMMENDATIONS

Psychology:	PSYC	101
Statistics:	STATS	154 or 354
	MATH	354
Biology:	BIOL	105, 106, 220, 270, 330 211 or 320 or 479
Chemistry:	CHEM	201, 202, 320
Communications:	CMST	101W or 102
Economics:	ECON	202
English:	ENG	201W, or 271W or 301W
Mathematics:	MATH	121
Physics:	PHYS	211 and 212

Any major degree is acceptable for admission to a Pharmacy School. Due to the emphasis on science courses as preparation, it is usual for Minnesota State Mankato pre-pharmacy students to complete degree majors in biochemistry, chemistry, human biology or physics. Admission to Pharmacy Schools is very competitive, and a strong GPA is required.

FOR MORE INFORMATION PLEASE CONTACT

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You are encouraged to visit the campus.

To arrange for a visit, please call:

Office of Admissions: 507-389-1822

Tollfree: 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 15 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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