

# Liberal Arts (Mathematics Transfer)

## **Degree Type**

Associate in Science

## **Contact Information**

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## **Delivery Methods**

Face-to-Face: Wahpeton  
Online: Some Classes  
Combination

The Mathematics transfer curriculum plan is specifically designed for those who are planning to obtain a bachelor's degree in mathematics at a four-year college or university. Students who choose this plan will not be limited to just mathematics, since it will lay the foundation for many other college majors that rely on mathematics, such as actuarial science, chemistry, computer science, engineering, or physics.

Students choosing this plan should consult with the Mathematics and Science Department in selecting their lab science sequence and electives since future plans of study at a four-year college may have specific requirements. In addition, a student should contact the college or university of their choice to confirm a list of recommended courses.

One career opportunity for a person who has a bachelor's degree in mathematics is an actuary. An actuary will assess risk using mathematical and statistical methods and is often employed by insurance and financial institutions. An actuary needs to pass a series of professional exams dealing with probability and statistics, finance and economics. Students interested in a future career as an actuary may find ACCT 200, ACCT 201, ECON 201, ECON 202, and other electives in business, economics, and statistics useful.

Upon completion of this program, the student is awarded the Associate in Science degree which allows transfer to most four-year colleges and universities as a junior.

This plan meets the Liberal Arts Program Purposes listed in the NDSCS Catalog.

## **Admission Requirements**

The applicants must be high school graduates or equivalent. Helpful course to prepare for this program are biology, chemistry, computer science, English, mathematics, and physics.

Courses that develop reading and communication skills and two years of a foreign language, if available, also are recommended. Applicants may be required to complete a basic skills evaluation during the admissions process.

## **Award**

Upon successful completion of the required courses, students will be awarded an Associate in Science degree in Liberal Arts.

# Required Courses

| Course Code | Title   | Credits |
|-------------|---|---------|
| COMM 110    | Fundamentals of Public Speaking                     | 3       |
| CSCI 160    | Computer Science I                                  | 4       |
| ENGL 110    | College Composition I                               | 3       |
| ENGL 120    | College Composition II                              | 3       |
| ENGL 125    | Introduction to Professional Writing                | 3       |
| FYE 101     | Science of Success                                  | 1       |
| MATH 165    | Calculus I  | 4       |
| MATH 166    | Calculus II   | 4       |
| MATH 265    | Calculus III  | 4       |
| MATH 266    | Introduction To Differential Equations              | 3       |
|             | General Education Electives (9 credits)             | 9       |
|             | Humanities/History Electives (6 credits)            | 6       |
|             | Science Electives (8 credits)                       | 8       |
|             | Social and Behavioral Science Electives (8 credits) | 8       |
|             | Wellness Elective(s) (2 credits)                    | 2       |

\*Either ENGL 120 or ENGL 125, but not both, may be replaced with an alternative elective with the approval of the Mathematics and Science Department.

MATH 227 Applied Linear Algebra is recommended as a General Education Elective.

\*\* Consult academic advisor in selecting electives that are most appropriate for the intended bachelor's program.

\*\*\*It is recommended that students take PHYS 251/251L and PHYS 252/252L, University Physics I and II, as their science electives. It is also recommended that students choose a second Lab Science sequence for their general electives when the intended bachelor's program is not known or to choose appropriate electives with the prefix ECON and ACCT for those who may be interested in actuarial science.

This curriculum meets the North Dakota University System general education requirements as indicated in the NDSCS Catalog under the heading NDUS: General Education Transfer Agreement.

|                               |           |
|-------------------------------|-----------|
| <b>Total Required Credits</b> | <b>65</b> |
|-------------------------------|-----------|