The Bachelor of Science in Information Systems program provides students with a firm grasp of business concepts and information systems applications, and prepares them to create innovative solutions for significant business problems. Students gain the ability to integrate hardware, software, and management skills to solve problems in a variety of business areas.

The program’s mission is to ensure that each graduate is exceptionally well-qualified to undertake a successful information systems career in business, industry, education, or government. In support of this mission, the program is designed so that:

- Each student will gain a sound foundation in computing basics: analysis and design, programming, testing, software development, security, database, and human-computer interaction.
- Each student will assimilate a solid base of business enterprise concepts, operations, and enterprise resource planning (ERP).
- Each student will learn the theory and practice of information technology, and develop skills to apply this knowledge to analyze and solve business problems.
- Each student will develop analytical, critical thinking, and interpersonal skills applicable to real-world problems.
- Each student will develop effective oral and written communication skills.
- Each student will appreciate the social and ethical issues in information systems.

Admission to Major is granted by the department. Admission to the Major is required before the student is permitted to take 300- and 400-level courses. Requirements are:
- A minimum of 32 earned semester credits
- Completion of MATH 181 or MATH 121 with a grade of “C” or better
- Completion of ENG 101 with a grade of “C” or better each, and a combined GPA of 2.5 in these courses (or their equivalents).
- Completion of IT 210 and IT 214 with a grade of “C” or better each, and a combined GPA of 2.5 in these courses (or their equivalents).

POLICIES/INFORMATION

GPA Policy. The completion of any major or minor in the Department of Computer Information Science requires both:
- a GPA of 2.5 or higher for all departmental courses, or their substitutions, used to complete the major or minor, and
- a GPA of 2.5 or higher for all courses, or their substitutions, used to complete the major or minor. This includes all departmental courses, supporting courses, and General Education courses required for the major or minor.

It is recommended that students who cannot maintain a GPA of 3.0 in required 100 and 200 level course see their advisor for a program review.

Grade Policy. All coursework used to complete a departmental major or minor, including required courses, required supporting courses, and required General Education courses, must be taken for a letter grade except for courses offered only as P/N.

No course completed with a grade of “D” can be used to complete a departmental major or minor program, or to meet a departmental prerequisite.

Registration Hold Policy. The department will place a registration hold on any student who earns a “D” or “F” in any of its courses. The department will also place such a hold on any student who drops any of its courses after the first two weeks of the semester. A student with a registration hold cannot register for courses until the hold is released, which requires filling out an appeal form and taking it to the student’s advisor for discussion. Appeal forms are available from the departmental office.

Dual Major Policy. Students can earn at most one undergraduate major from this department.

Incomplete Policy. The department gives incomplete grades for only two conditions. The first condition is illness, which requires a doctor’s written recommendation. The second condition arises when a death in the student’s family has caused the student to be away from the campus for an extended period. The student must have a satisfactory grade (“C” or better) in the course at the time of the onset of the condition.

Internship Policy. An internship is required for all majors.

Residency Policy. Students must earn at least 50 percent of the credits required for a major in Information Systems at Minnesota State Mankato.

Advising Policy. Every semester, before registering for courses, each student majoring in Information Systems must meet with his/her advisor to obtain permission for registration. This meeting ensures that all students are making satisfactory progress toward their degrees.

Portfolio Policy. Each student majoring in Information Systems is required to keep a portfolio of work done in all majors, and to make this portfolio available to faculty for review. Keeping a portfolio gives the student ownership over his or her education and helps to personalize the educational experience. The portfolio also provides a valuable showcase of work accomplished when interviewing prospective employers or applying to graduate school.

INFORMATION SYSTEMS BS
Degree completion = 120 credits

Required General Education
CMST 100 Fundamentals of Communication (3)
ENG 101 Composition (4)
IT 202W Computers in Society (4)
PHIL 224W Business Ethics (3)
Math
MATH 121 Calculus I (4)
MATH 181 Intuitive Calculus (3)
Communication Studies
CMST 102 Public Speaking (3)
CMST 212 Professional Communication & Interviewing (4)

Major Common Core
ACCT 200 Financial Accounting (3)
ECON 207 Business Statistics (4)
ENG 271W Technical Communication (4)
IT 210 Fundamentals of Programming (4)
IT 214 Fundamentals of Software Development (4)
IT 340 Introduction to Database Systems (4)
IT 350 Information Security (4)
IT 380 Systems Analysis & Design (4)
IT 440 Database Management Systems II (4)
IT 480 Software Quality Assurance and Testing (4)
IT 482 Human Computer Interaction (4)
IT 484 Software Engineering (4)
IT 497 Internship (1-12)

Three credits of IT 497 are required for the major. Additional credits will be used to satisfy overall degree requirements.
Major Restricted Electives
Students must complete the requirements for ONE of the two clusters

**Cluster 1** (15 credits)

**Integrated Business Experience**
Three credits of IT 499 must be registered for the IBE Practicum to count towards this cluster. All courses are registered for in a single semester. Work with the College of Business Advising Center to register for the IBE curriculum.

- FINA 362 Business Finance (3)
- IT 499 Individual Study (1-4)
- MGMT 330 Principles of Management (3)
- MRKT 310 Principles of Marketing (3)

**Electives for Cluster 1**
(choose 3 credits)
- ACCT 210 Managerial Accounting (3)
- BLAW 371 Computer and Technology Law (3)
- MGMT 346 Production & Operations Management (3)
- MGMT 473 Enterprise Resource Planning (ERP) (3)

**Cluster 2** (15 credits)

**General Business Cluster**

- FINA 362 Business Finance (3)
- MGMT 330 Principles of Management (3)
- MRKT 310 Principles of Marketing (3)

**Electives for Cluster 2**
(choose 6 credits)
- ACCT 210 Managerial Accounting (3)
- BLAW 371 Computer and Technology Law (3)
- MGMT 346 Production & Operations Management (3)
- MGMT 473 Enterprise Resource Planning (ERP) (3)

**Major Unrestricted Electives**
(choose 4 credits)
- ENG 469 Project Management in Technical Communication (4)

Or any upper-division course(s) not already used in the Major Common Core or in the selected cluster. IT 300-IT 499

**Required Minor:** None.

For IT course descriptions, please see Computer Information Technology.