The Bachelor of Science in Information Systems program provides students with in-depth knowledge of Information Technology concepts and applications, and prepares them to create innovative solutions for real-world problems. Students gain the ability to integrate hardware, software, and management skills to solve problems in a variety of IT areas.

The program’s mission is to ensure that each graduate is exceptionally well qualified to undertake a successful information systems career in industry, business, 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 learn the theory and practice of information technology and develop skills to apply this knowledge to analyze and solve information system problems.
- Each student will develop analytical, critical thinking, and interpersonal skills applicable to real-world problem solving.
- Each student will acquire basic business concepts to assist them in career paths where they are interfacing with and developing solutions for business professionals.
- Each student will develop effective oral and written communication skills.
- Each student will appreciate the social and ethical issues in information systems.

POLICIES/INFORMATION

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 IT 181 or IT 121 with a grade of “C” or better
- Completion of ENG 101 with a grade of “C” or better
- Completion of IT 210 and IT 214 with a grade of “C” or better, and a combined GPA of 2.5 in these courses (or their equivalents).

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 major courses, 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)
PHL 224W Business Ethics (3)
Math (choose 3-4 credits from the following MATH courses)
MATH 121 Calculus I (4)
MATH 181 Intuitive Calculus (3)
Communication Studies (choose 3-4 credits from one of the following)
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 311 Business Application Programming (4)
IT 340 Introduction to Database Systems (4)
IT 350 Information Security (4)
IT 380 Systems Analysis & Design (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

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IT 214 Fundamentals of Software Development (4)
IT 311 Business Application Programming (4)
IT 340 Introduction to Database Systems (4)
IT 350 Information Security (4)
IT 380 Systems Analysis & Design (4)
IT 480 Software Quality Assurance and Testing (4)
IT 482 Human Computer Interaction (4)
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IT 340 Introduction to Database Systems (4)
IT 350 Information Security (4)
IT 380 Systems Analysis & Design (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

INFORMATION SYSTEMS BS
Degree completion = 120 credits

Required General Education
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IT 380 Systems Analysis & Design (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

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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.

MajorRestricted Electives
Students must complete the requirements for ONE of the two clusters
Cluster 1: Integrated Business Experience (IBE) (15 credits)
IBE Curriculum (choose 12 credits)
Three credits of IT 499 must be taken concurrently with the IBE practicum to count towards this cluster. The four IBE courses are taken together 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)

Cluster 1 Electives (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: General Business (15 credits)
Business Core (choose 9 credits)
FINA 362 Business Finance (3)
MGMT 330 Principles of Management (3)
MRKT 310 Principles of Marketing (3)

Cluster 2 Electives (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.