

Information Systems

College of Science, Engineering & Technology
Department of Computer Information Science
273 Wissink Hall • 507-389-1412
Website: cset.mnsu.edu/cis

Chair: Leon Tietz

Faculty: Cyrus Azarbod, Lee Cornell, Allan Hart, Sarah Kruse, Guarionex Salivia, Mahbubur Syed, Christophe Veltsos, Michael Wells

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 MATH 181 or MATH 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 in each, and a combined GPA of 2.5 in these courses (or their equivalents).

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 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)
PHIL	224W	Business Ethics (3)
<u>Math</u>		
(choose 3-4 credits from the following MATH courses)		
MATH	121	Calculus I (4)
MATH	181	Intuitive Calculus (3)
<u>Communication Studies</u>		
(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	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

INFORMATION SYSTEMS CONTINUED

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)
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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.