



### **Crookston Campus**

## **Information Technology Management B.S.**

*Math, Science and Technology*

### **Academic Affairs**

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2017
- Required credits to graduate with this degree: 120
- Required credits within the major: 54 to 55
- This program requires summer terms.
- Degree: Bachelor of Science

The information technology management program prepares students for technical and management positions in business and industry. Graduates have the knowledge, experience, and skills to succeed in technology related careers as well as the business and management competencies for mid-management positions such as information technology specialists, application developers, network administrators, Webmasters, technology project and information systems managers.

### Program outcomes

Graduates will:

Demonstrate abilities in the use of information systems hardware, operating systems, programming languages, and application software

Use computer technology in preparing programs, presentations, and written reports

Demonstrate the ability to communicate clearly and concisely in written and oral communications through technical reports, solutions to information technology problems, and feasibility studies

Demonstrate human relations and career/life adaptability skills in problem solving, decision making, and responding to change

Demonstrate an environmental perspective in the development of solutions for business and information technology problem solving

Demonstrate global and ethical perspectives in information technology management

Demonstrate an understanding of the role of finance, marketing, and management as job responsibilities of the information technology professional

## **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)
- completely online (all program coursework can be completed online)

## **Admission Requirements**

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

## **General Requirements**

All students are required to complete general University and college requirements. For more information, see the [graduation requirements](#).

## **Program Requirements**

Students must complete 40 upper division credits.

### **Information Technology Management Requirements**

A maximum of two D grades are allowed for core courses required in the program and technology requirements. This includes grades earned at UMC or transferred in from another institution.

Required courses - 54 credits

[ACCT 2101](#) - Principles of Accounting I (3.0 cr)

[ACCT 2102](#) - Principles of Accounting II (3.0 cr)

[FIN 3100](#) - Managerial Finance (3.0 cr)

[GBUS 3107](#) - Legal Environment in Business (3.0 cr)

[ITM 3020](#) - Introduction to Management Information Systems (3.0 cr)

[ITM 3110](#) - Microcomputer Operating Systems (3.0 cr)

[ITM 3130](#) - Messaging Systems (3.0 cr)

[ITM 3900](#) - Internship (1.0 - 3.0 cr)

[ITM 4020](#) - Analysis and Design of Information Systems (3.0 cr)



ITM 4900 - Senior Project in Information Technology Management (3.0 cr)  
MGMT 3200 - Principles of Management (3.0 cr)  
MGMT 4200 - Project Management (3.0 cr)  
MKTG 3300 - Principles of Marketing (3.0 cr)  
NT 3120 - Networking Standards and Protocols (3.0 cr)  
NT 3215 - Information Assurance and Cybersecurity (3.0 cr)  
SE 2050 - Introduction to Programming I (3.0 cr)  
SE 2100 - Microcomputer Systems Architecture (3.0 cr)  
SE 3050 - Database Management Systems (3.0 cr)

### Liberal Education Requirements

A minimum of 40 liberal education credits required. Students must complete the 10 goal areas of the Minnesota Transfer Curriculum with the following specific liberal education courses required:

BIOL 1009 - General Biology [BIOL SCI, PEOPLE/ENV] (4.0 cr)  
COMP 1011 - Composition I [COMMUNICAT] (3.0 cr)  
COMP 1013 - Composition II [COMMUNICAT] (3.0 cr)  
ECON 2101 - Microeconomics [HI/BEH/SSC] (3.0 cr)  
ECON 2102 - Macroeconomics [HI/BEH/SSC] (3.0 cr)  
HUM 3310 - Culture and Technology [HUMANITIES, GLOB PERSP] (3.0 cr)  
MATH 1031 - College Algebra [MATH THINK] (3.0 cr)  
MATH 1150 - Introduction to Statistics [MATH THINK] (3.0 cr)  
PHIL 1001 - Introduction to Philosophy [HUMANITIES, ETH/CIV RE] (3.0 cr)  
PSY 1001 - General Psychology [HI/BEH/SSC] (3.0 cr)  
COMM 1101 - Public Speaking [COMMUNICAT] (3.0 cr)  
PHYS 1012 - Introductory Physics [PHYS SCI, PEOPLE/ENV] (4.0 cr)  
or PHYS 1101 - Introductory College Physics I [PHYS SCI] (4.0 cr)

### Technology Requirements

Required courses - 3 credits

CA 1040 - Web Site Development (3.0 cr)

### Electives

Students must take enough electives credits to meet the 120 credit graduation requirement. Approximately 21 to 22 credits will be needed.

## Program Sub-plans

A sub-plan is not required for this program.

### Information Technology Management (Online)

The information technology management program prepares students for technical and management positions in business and industry. Graduates have the knowledge, experience, and skills to succeed in technology related careers as well as the business and management competencies for mid-management positions such as information technology specialists, application developers, network administrators, Webmasters, technology project and information systems managers. The ITM (Online) program has the same curriculum as the on-campus ITM program with the exception of a one-credit orientation to online learning.

### ITM (Online) Program Requirement

Required course - 1 credit

GBUS 1005 - Orientation to Online Learning (1.0 cr)