Program Requirements Guide 2021-2022

Management Information Systems AS DEGREE

Program Overview
The Associate of Science Degree in Management Information Systems is designed to provide students with opportunities for immediate employment or for transfer to four-year institutions. The College has developed articulation agreements with four-year institutions to assist students with their transfer goals. See a Transfer Specialist for further information.

Students planning a career in this area should have above average mathematic reasoning and communication skills. Students should exhibit qualities of patience, perseverance, and preciseness, and should enjoy working in a team environment.

Career Opportunities
A management information system degree prepares the student for a career that combines business techniques and computer systems capability. Students study how to provide reporting and analysis using best practices in information technology.

Graduates will find opportunities in the information systems field in business, manufacturing, government and education.

With additional education and experience, students may advance to positions such as Systems Analyst, Software Architect and Business Analyst. Graduates of this program may choose to continue their education at a four-year institution in Management Information Systems or a related field. Others may elect to enter the workforce following graduation.

Program Outcomes
1. Analyze complex business processes to develop process improvements and comprehensive information system requirements specifications to support them.
2. Build and test information systems.
3. Utilize accounting and business systems information to develop recommendations for operating cost reduction and improved use of capital investment.
4. Demonstrate understanding of business systems, current technologies, organizational structures, communication tools, and critical thinking skills to help guide Management Information Systems success.
5. Apply effective technical communication skills.
6. Develop database applications using an industry standard database management system.
7. Demonstrate an understanding of computing and programming concepts.

Program Faculty
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Part-time and Full-time Options
This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available.

Program Requirements
☐ Check off when completed

Course Cr
☐ ACCT 2410 Financial Accounting 4
☐ BUSN 2110 Principles of Marketing 3
☐ BUSN 2450 Management Fundamentals 3
☐ CSCI 1410 Computer Science & Information Systems 4
☐ CSCI 1450 Web Fundamentals/HTML 4
☐ CSCI 1523 Intro to Computing and Programming Concepts 4
☐ CSCI 1550 Database Management Fundamentals 4
☐ CSCI 2410 Management Information Systems 3

Subtotal 29

General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area
☐ Goal 1: Communication 7
ENGL 1711 Composition 1 – 4 cr
COMM 17XX – 3 cr
☐ Goal 4: Mathematical/Logical Reasoning 7-8
MATH 1740 Introduction to Statistics – 4 cr
MATH 1730 College Algebra – 3 cr OR
MATH 2749 Calculus 1 – 4 cr
☐ Goal 5: History, Social Science and Behavioral Sciences 6
ECON 1720 Macroeconomics – 3 cr
ECON 1730 Microeconomics – 3 cr
☐ Goals 1-10 of the Minnesota Transfer Curriculum 10-11
Select a minimum of 10-11 additional credits
Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.

General Education Requirements 31

Total Program Credits 60

Program Start Dates
Fall, Spring, Summer

Course Sequence
The following sequence is recommended for a full-time student. Not all courses are offered each semester.

First Semester
BUSN 2450 Management Fundamentals 3
CSCI 1410 Computer Science & Info Systems 4
Goal 1: ENGL 1711 Composition 1 4
Goal 4: MATH 1730 College Algebra
OR MATH 2749 Calculus 1 3-4

Total Semester Credits 14-15

Second Semester
ACCT 2410 Financial Accounting 4
BUSN 2110 Principles of Marketing 3
CSCI 1523 Introduction to Computing and Programming Concepts 4
Goal 4: MATH 1740 Introduction to Statistics 4

Total Semester Credits 15

Third Semester
CSCI 1450 Web Fundamentals/HTML 4
CSCI 1550 Database Management Fundamentals 3
MnTC Electives 3

Total Semester Credits 17

Fourth Semester
CSCI 2410 Management Information Systems 3
Goal 5: ECON 1730 Microeconomics 3
MnTC Electives 7-8

Total Semester Credits 13-14

Total Program Credits 60

See back of this guide for Transfer Opportunities

Information is subject to change.
This Program Requirements Guide is not a contract.
Management Information Systems  AS DEGREE (continued)
(29 credits + 31 GenEd credits)

Transfer Opportunities
Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.
For more information please go to saintpaul.edu/Transfer.

Management Information Systems AS
BA  Individualized Studies
    Metropolitan State University
BS  Information Technology
    Saint Mary's University,
    Twin Cities Campus

The below chart illustrates the courses required for completion of this degree.

<table>
<thead>
<tr>
<th>Introductory</th>
<th>Intermediate</th>
<th>Advanced</th>
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<tbody>
<tr>
<td>CSCI 1410  Computer Science &amp; Information System</td>
<td>CSCI 1450  Web Fundamentals/HTML</td>
<td>CSCI 2410  Management Information Systems</td>
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<td></td>
<td>CSCI 1550  Database Management Fundamentals</td>
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<td></td>
<td>BUSN 2110  Principles of Marketing</td>
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<td>BUSN 2450  Management Fundamentals</td>
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Minimum Program Entry Requirements
Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 250+ or grade of “C” or better in READ 0722 or READ 0724 or EAPP 0900

Writing: Score of 250+ on Reading Comprehension or grade of “C” or better in ENGL 0922 or EAPP 0900

Adv. Algebra & Functions: Score of 250+ or grade of “C” or better in MATH 0920

Assessment Results and Prerequisites:
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.