

# The Department of Management Information Systems

## Management Information Systems Major

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## About

Management Information Systems (MIS) blends business knowledge with the use of information technology to solve complex business challenges. The focus of MIS isn't computer programming; instead, you will learn how to strategically apply technology to enhance the way people work and help companies innovate their products and services. From traders looking to capture market inefficiencies to marketers engaging with consumers to executives expanding businesses globally, technology impacts business in every way and with an MIS major, you will develop the skills to understand those business needs and create IT solutions that add value.

Major in Management Information Systems leads to a degree of Bachelor of Business Administration.

## Management Information Systems Major Courses (18 Credits)

Management Information Systems major requires **six (6)** unique major courses.

**Note:** MIS 3310 and MIS 3500 do not count toward Management Information Systems elective courses.

Choose two of the following:

| Course   | Title                          | Credits |
|----------|--------------------------------|---------|
| MIS 2020 | Prog for Adaptive Prob Solving | 3       |
| MIS 2030 | Database Management            | 3       |
| MIS 2040 | Systems Analysis & Design      | 3       |

Plus any four (4) MIS elective courses from the following:

| Course   | Title                          | Credits |
|----------|--------------------------------|---------|
| MIS 3010 | Business Data Communications   | 3       |
| MIS 3020 | Enterprise Systems & Appl      | 3       |
| MIS 3030 | Enabling Tech in E-Business    | 3       |
| MIS 3040 | MIS Seminar                    | 3       |
| MIS 3050 | CRM and Data Analytics         | 3       |
| MIS 3060 | Bus Intelligence and Perf Mgmt | 3       |
| MIS 3070 | Emerging Business Technologies | 3       |
| MIS 3080 | Applied Machine Learning       | 3       |
| MIS 3090 | Special Topics in MIS          | 3       |
| MIS 3300 | AI & Machine Learning for Bus  | 3       |

**Also note:**

- One MIS elective course can also include MIS 2020, MIS 2030, or MIS 2040.
- MIS 2020 is the only course that can be shared between MIS major and Applied Quantitative Finance concentration.
- Four out of six MIS major courses must have MIS as the subject code. The following courses may also fulfill two out of six MIS major requirements:
  - ACC 2340 may fulfill an MIS elective only if this course is not also fulfilling an ACC major or ACC minor requirement.
  - For students pursuing both BUSA/MSBA (Master of Science in Business Analytics) programs:
    - MSA 8110 (Data Model & Struct Analysis) may satisfy MIS 2030
    - MSA 8240 (Business Intelligence) may satisfy MIS 3060
  - CSC 1052 may satisfy MIS 2020 if this course is not fulfilling the core Arts and Science requirement. Other CSC courses with the MIS course attribute may also fulfill MIS major requirements.

## Core Curriculum Requirements (89 Credits)

**Augustinian Values** (18 Credits)

| Course   | Title                         | Credits |
|----------|-------------------------------|---------|
| ACS 1000 | Ancients                      | 3       |
| ACS 1001 | Moderns                       | 3       |
| ETH 2050 | The Good Life:Eth & Cont Prob | 3       |
| PHI 1000 | Knowledge, Reality, Self      | 3       |
| THL 1000 | Faith, Reason, and Culture    | 3       |
|          | THL Elective                  | 3       |

**Math and Science** (11 Credits)

| Course   | Title                               | Credits |
|----------|-------------------------------------|---------|
|          | Business Statistics                 | 4       |
|          | Computer Science OR Natural Science | 3       |
| MAT 1500 | Calculus I                          | 4       |



## Humanities and Social Sciences (15 Credits)

| Course | Title   | Credits |
|--------|---|---------|
|        | Behavioral Science                                    | 3       |
|        | Computer Science OR Natural Science OR Social Science | 3       |
|        | History Elective                                      | 3       |
|        | Humanities Elective                                   | 3       |
|        | The Literary Experience                               | 3       |

## Business Core Requirements (45 Credits)

| Course   | Title                         | Credits |
|----------|-------------------------------|---------|
| ECO 1001 | Intro to Micro                | 3       |
| ECO 1002 | Intro to Macro                | 3       |
| ECO 3108 | Global Political Econ         | 3       |
| VSU 0099 | B2B:FR Experience             |         |
| VSU 1000 | Information Technology        | 1       |
| VSU 1015 | Business Dynamics             | 3       |
| VSU 2000 | Backpack-to-Briefcase:SO Sem  | 1       |
| VSU 2004 | Financial Accounting          | 3       |
| VSU 2006 | Introduction to MIS           | 3       |
| VSU 2007 | Corp Respon & Regulation      | 3       |
| VSU 2008 | Business Analytics            | 3       |
| VSU 2009 | Principles of Finance         | 3       |
| VSU 2014 | Principles of Managerial Acct | 3       |
| VSU 2020 | Competitive Effectiveness     | 6       |
| VSU 3000 | Backpack-to-Briefcase:JR Sem  | 1       |
| VSU 3008 | Operations&Supply Chain Mgmt  | 3       |
| VSU 4002 | Strategic Think & Implem      | 3       |

## Elective Requirements (18 Credits)

| Course | Title                 | Credits |
|--------|-----------------------|---------|
|        | Non-Business Elective | 3       |
|        | Free Electives        | 15      |

## Degree Credit Summary

- **Major Course Requirements:** 18 Credits
- **Core Curriculum Requirements:** 89 Credits
  - Augustinian Values (18 cr.)
  - Math and Science (11 cr.)
  - Humanities and Social Sciences (15 cr.)
  - Business Core Requirements (45 cr.)
- **Elective Requirements:** 18 Credits
- **Total Credits:** 125 Credits

## Additional Information

- All Arts and Sciences core courses, business core courses (*except VSB 0099 – 0 cr. and VSB 1000 – 1 cr.*), major courses, minor courses, and concentration courses must be taken for a letter grade.
- One credit courses {except ACC 2020, COM 5300, EGEN 2100 (for Engineering EENT or EESI minor), FIN 2121, VSB 1000, VSB 2000, VSB 2121, and VSB 3000} **may not** satisfy degree requirements, including free electives.
  - Three ACC 2020 (1 cr.) on the following topics may satisfy a free elective requirement:
    - Introduction to Forensics for Accountants
    - Introduction to Deals Advisory for Accountants
    - Introduction to Digital & Cyber-security for Accountants
  - Three COM 5300 (1 cr.) on different topics may satisfy a non-business or a free elective requirement.
- Two 1.5 credit Villanova Integrated Academics (VIA) courses may be combined to fulfill a non-business elective or a free elective requirement.
- An “S/U” grade (Satisfactory/Unsatisfactory Option) is only permitted for a non-business elective or free electives. See the [Satisfactory/Unsatisfactory Option](#) section for more information.
- **A course that fulfills a major and co-major requirement can satisfy a maximum of two requirements - no triple dipping.** For example, MGT 3170 cannot fulfill [a Management major](#), [a Business Analytics co-major](#), AND [a Free Elective](#).

## SECONDARY MAJOR (18 Credits)

Students who declare Management Information Systems as a **secondary major** must complete all management information systems major courses to earn it as a secondary major. Secondary management information systems major courses may fulfill the free elective requirements.