Students earning degrees through the College of Business Administration are required to complete:
60 credit hours of non-business coursework
30 hours of core business coursework
21 hours of INFSYS coursework (see III below)
9 hours of business or non-business approved electives
120 credits

I. Required non-business coursework includes the campus general education requirements. Students must complete a 42-hour block of courses from an approved list of general education courses. These courses are from eight areas:

CORE:
1) First Year Writing – 1 course -(ENGL 1100, 1110 or HIST 1111 with a C- or better grade)
2) Math Proficiency – 1 course (MATH 1030 or a proctored ALEKS score of 45 or higher)
3) Communication Proficiency – 1 course (COMM 1030, 1040, 2230, 2240 or TH DAN 1210)
4) Information Literacy – 1 course (CMP SCI 1012, 1250, INFSYS 1800, 2800, MATH 1105)
5) American History or Government – 1 course (CRIMIN 1100, HIST 1001, 1002, 1003, 1004, POL SCI 1100)

EXPLORE:
6) Humanities and Fine Arts – 9 hours from at least two areas (see approved list in Advising Office)
7) Social Sciences – 9 hours from at least two areas (BUS AD 2900, ECON 1001, 1002)
8) Math and Life/Natural Sciences – 9 hours from at least two areas (MATH 1100, 1105 and a Life/Natural Science)

Additional requirements of the College of Business include:
• One Cultural Diversity course
• Two Global Awareness courses (see approved list)
• ENGL 3120 Business Writing
• Completion of Good Standing requirements

II. REQUIRED BUSINESS ADMINISTRATION COURSES:
ACCTNG 2400 Fundamentals of Financial Accounting 3
ACCTNG 2410 Managerial Accounting 3
INFSYS 2800 Information Systems Concepts and Applications* 3
BUS AD 2900 Legal Environment of Business 3
SCMA 3300 Business Analytics and Statistics 3
SCMA 3301 Introduction to Supply Chain Management 3
FINANCE 3500 Financial Management 3
MGMT 3600 Management and Organizational Behavior 3
MKTG 3700 Basic Marketing 3
MGMT 4219 Strategic Management (capstone course, taken during the last semester)** 3
MGMT 4220 Business Assessment Test 0

*INFSYS 1800 can be waived by exam. See website http://umsl.edu/go/HRe
**Special Consent Form needed for MGMT 4219 Strategic Management.

III. INFORMATION SYSTEMS REQUIREMENTS:
A student must complete 7 courses (21 hours)
A) Programming/File Structure Requirement (6 hours)
INFSYS 3806 Managerial Applications of Object-Oriented Programming I 3
INFSYS 3816 Managerial Applications of Object-Oriented Programming II 3
B) Three Courses (9 hours)
INFSYS 3810 Information Systems Analysis 3
INFSYS 3845 Database Management Systems 3
INFSYS 4850 Information Systems Design 3
C) A student must complete two courses (6 hours) from the following including at least one (INFSYS) course at the 3000/4000-level:
INFSYS 3807 Legacy Systems 3
INFSYS 3815 Object-Oriented Applications in Business 3
INFSYS 3841 Enterprise Information Systems 3
INFSYS 3842 Data Networks and Security 3
INFSYS 3843 Decision Support Systems for Business Intelligence 3
INFSYS 3844 Developing Business Applications in .NET 3
INFSYS 3846 E-Commerce 3
INFSYS 3847 Web Design 3
INFSYS 3848 Introduction to Information Security 3
INFSYS 3858 Advanced Security and Information Systems 3
INFSYS 3868 Secure Software Development 3
INFSYS 3878 Information Security Risk Management & Business Continuity 3
INFSYS 3890 Internship in Information Systems 3
INFSYS 3898 Seminar in Information Systems Management 3
INFSYS 3899 Independent Study in Information Systems 3

See reverse side for additional electives.

*INFSYS 1800 (can be waived by an exam. See website: http://umsl.edu/go/HRe

Students can add an undergraduate certificate or minor in cybersecurity to the BSIS by choosing the appropriate electives.
# Bachelor of Science in Information Systems Degree
## Four-Year Plan

Students must have 42 hours of General Education coursework. Courses listed in **bold print** count toward the 42 hours. A list of applicable General Education and State Requirement courses is posted on the College of Business Administration webpage and are available in the Academic Advising Office. Courses in *italics* count toward the Good Standing Policy.

**FIRST SEMESTER**

- **MATH 1030 College Algebra**
- **ENGL 1100 First Year Writing**
- **BUS AD 1000 Introduction to Business**
  - Managing Information Skills Goal**
  - Social/Behavioral Sciences Knowledge Goal
- **INTDSC 1003 University Studies (1 hr)**

**SECOND SEMESTER**

- **MATH 1100 Basic Calculus**
- **ECON 1001 Principles of Microeconomics**
- **Life/Natural Sciences Goal (lecture only)**
- **Humanities/Fine Arts Goal**
- **INFSYS 2800 Information Systems Concepts and Applications**

**THIRD SEMESTER**

- **MATH 1105 Basic Probability and Statistics**
- **Communicating Skills Course**
- **ACCTNG 2400 Fundamentals of Financial Accounting**
- **ECON 1002 Principles of Macroeconomics**
- **INFSYS 3806 Managerial Applications of Object-Oriented Prog. I**

**FOURTH SEMESTER**

- **ACCTNG 2410 Managerial Accounting**
- **BUS AD 2900 Legal Environment of Business**
- **SCMA 3300 Business Analytics and Statistics**
- **Humanities/Fine Arts Goal**
- **INFSYS 3816 Managerial Applications of Object-Oriented Prog. II**

**FIFTH SEMESTER**

- **SCMA 3301 Introduction to Supply Chain Management**
- **MGMT 3600 Management and Organizational Behavior**
- **ENGL 3120 Business Writing**
- **INFSYS 3810 Information Systems Analysis**
- **Humanities/Fine Arts Goal**

**SIXTH SEMESTER**

- **FINANCE 3500 Financial Management**
- **MKTG 3700 Basic Marketing**
- **INFSYS 3845 Database Management Systems**
- **Cultural Diversity Course**
- **State Requirement Course**

**SEVENTH SEMESTER**

- **INFSYS 4850 Information Systems Design**
- **Information Systems Elective***
- **Global Awareness Course (Non-Business)**
- **Social Science Course**
- **Non-Business Approved Elective**

**EIGHTH SEMESTER**

- **MGMT 4219 Strategic Management / MGMT 4220 Business Test**
- **Information Systems Elective***
- **Global Awareness Course**
- **Non-Business Approved Elective**
- **Non-Business Approved Elective**

* BUS AD 1000 Introduction to Business and INTDSC 1003 University Studies are not required courses but students are strongly encouraged to take them during their Freshman year.

** Choose from the following courses (at least one INFSYS course at the 3000/4000 level):

- **INFSYS 3807 Legacy Systems**
- **INFSYS 3815 Object-Oriented Applications in Business**
- **INFSYS 3840 Enterprise Information Systems**
- **INFSYS 3842 Data Networks and Security**
- **INFSYS 3843 Decision Support Systems for Business Intelligence**
- **INFSYS 3844 Developing Business Applications in .NET**
- **INFSYS 3846 E-Commerce**
- **INFSYS 3847 Web Design**
- **INFSYS 3848 Introduction to Information Security**
- **INFSYS 3855 Advanced Security and Information Systems**
- **INFSYS 3868 Secure Software Development**
- **INFSYS 3878 Information Security Risk Management and Business Continuity**

+ INFSYS 3890 Internship in Information Systems
+ INFSYS 3898 Seminar in Information Systems Management
+ INFSYS 3899 Independent Study in Information Systems

** CMP SCI 2700 Computer Organization and Architecture**
** ACCTNG 3421 Accounting Information Systems**
** FINANCE 3503 Computer Applications in Finance**
** MKTG 3721 Introduction to Digital Marketing Strategies**

** CMP SCI 4222 iOS Apps**
** CMP SCI 4300 Introduction to Artificial Intelligence**
** CMP SCI 4700 Computer Forensics**
** CMP SCI 4760 Operating Systems**

**+ If offered and approved by the department faculty and the department chair.**

The INFSYS Area website: [http://www.umsl.edu/divisions/business/mis/index.html](http://www.umsl.edu/divisions/business/mis/index.html)
College of Business Administration Academic Advising website: [http://www.umsl.edu/divisions/business/undergrad_advising/](http://www.umsl.edu/divisions/business/undergrad_advising/)

Students seeking two concurrent degrees should have 135 hours with a major and an emphasis area. See an advisor for details.