

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
- 24 hours of INFSYS coursework (see III below)
- 6 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 51 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:

	30 Hours	
ACCTNG 2400 Fundamentals of Financial Accounting	3	A minimum grade of C- is required for all core courses except MGMT 4219.
ACCTNG 2410 Managerial Accounting	3	
INFSYS 2800 Information Systems Concepts and Applications*	3	
BUS AD 2900 Legal Environment of Business	3	
LOG OM 3300 Business Statistics	3	
LOG OM 3320 Introduction to Operations 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	

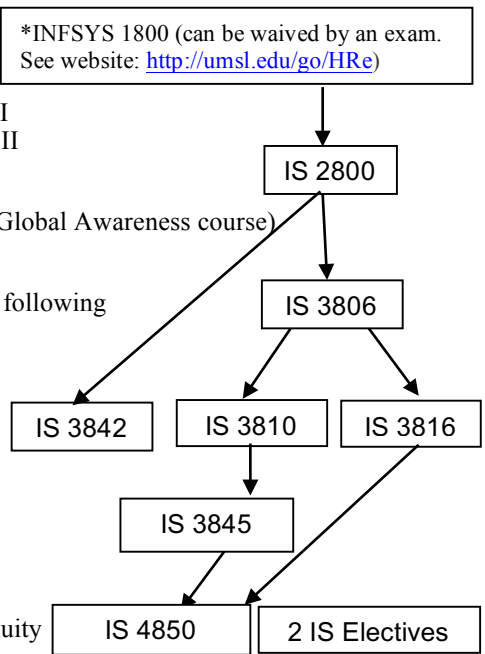
*INFSYS 1800 can be waived by exam. See website: <http://umsl.edu/go/HRe>

**Special Consent Form needed for MGMT 4219 Strategic Management.

III. INFORMATION SYSTEMS REQUIREMENTS:

A student must complete 8 courses (24 hours)

- A) INFSYS Programming Requirement (6 hours)
 - INFSYS 3806 Managerial Applications of Object-Oriented Programming I
 - INFSYS 3816 Managerial Applications of Object-Oriented Programming II
- B) INFSYS Core Courses (12 hours)
 - INFSYS 3810 Information Systems Analysis
 - INFSYS 3842 Data Networks and Security (Same as IB3882; serves as a Global Awareness course)
 - INFSYS 3845 Database Management Systems
 - INFSYS 4850 Information Systems Design
- C) INFSYS Electives: 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
 - INFSYS 3815 Object-Oriented Applications in Business
 - INFSYS 3841 Enterprise Information Systems
 - 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 3858 Advanced Security and Information Systems
 - INFSYS 3868 Secure Software Development
 - INFSYS 3878 Information Security Risk Management & Business Continuity
 - INFSYS 3890 Internship in Information Systems
 - INFSYS 3898 Seminar in Information Systems Management
 - INFSYS 3899 Independent Study in Information Systems



Students can add an undergraduate certificate or minor in cybersecurity to the BSIS by choosing appropriate electives: <http://cybersecurity.umsl.edu>

Bachelor of Science in Information Systems and Technology

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)

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

FIFTH SEMESTER

LOG OM 3320 Introduction to Operations Management
MGMT 3600 Management and Organizational Behavior
ENGL 3120 Business Writing
INFSYS 3810 Information Systems Analysis
Humanities/Fine Arts Goal

SEVENTH SEMESTER

INFSYS 4850 Information Systems Design
State Requirement Course
Global Awareness Course
Social Science Course
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.

** INFSYS 1800 Computers and Information Systems is a prerequisite for INFSYS 2800 Information Systems Concepts and Applications. This prerequisite can be waived by exam. See website: <http://umsl.edu/go/HRe>

*** 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 3841 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 3858 Advanced Security and Information Systems
INFSYS 3868 Secure Software Development
INFSYS 3878 Information Security Risk Management and Business Continuity

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

SECOND SEMESTER

MATH 1100 Basic Calculus
ECON 1001 Principles of Microeconomics
Life/Natural Sciences Goal (lecture only) (INTDSC 1234 Science Basics for Non-science Careers is designed for Business majors)
Humanities/Fine Arts Goal
INFSYS 2800 Information Systems Concepts and Applications

FOURTH SEMESTER

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

SIXTH SEMESTER

FINANCE 3500 Financial Management
MKTG 3700 Basic Marketing
INFSYS 3845 Database Management Systems
Cultural Diversity Course
INFSYS 3842 Data Networks and Security (Global Awareness Course)

EIGHTH SEMESTER

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

+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
MKTG 3722 Introduction to Social Media Marketing
CMP SCI 4222 iOS Apps
CMP SCI 4300 Introduction to Artificial Intelligence
CMP SCI 4700 Computer Forensics
CMP SCI 4760 Operating Systems

The INFSYS Area website: <http://www.umsl.edu/divisions/business/mis/index.html>

College of Business Administration Academic Advising website: 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.



Program Subject to Change Revised 04/18

