### 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 six areas:

#### Skill Goals:
1. Communicating Skills - (ENGL 1100 or ENGL 1110 and another course)
2. Managing Information Skills (ENGL 1100 or ENGL 1110 and INF SYS 1800)
3. Valuing Skills (ECON 1001)

#### Knowledge Goals:
4. Social and Behavioral Sciences Knowledge Goal (ECON 1001, ECON 1002 and BUS AD 2900)
5. Humanities and Fine Arts Knowledge Goal (three 3-hour classes)
6. Mathematics and Life/Natural Sciences (MATH 1030, MATH 1100, MATH 1105 and one 3-hour life/natural science course for a minimum of 12 hours)

#### Additional requirements of the College of Business include:
- One Cultural Diversity course
- Two Global Awareness courses (see approved list)
- State Requirement
- ENGL 3120 Business Writing
- One additional 3-hour Social Science course
- Completion of Good Standing requirements

### II. REQUIRED BUSINESS ADMINISTRATION COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTNG 2400 Fundamentals of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCTNG 2410 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 2800 Information Systems Concepts and Applications*</td>
<td>3</td>
</tr>
<tr>
<td>BUS AD 2900 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>LOG OM 3300 Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>LOG OM 3320 Introduction to Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FINANCE 3500 Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3600 Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3700 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4219 Strategic Management (capstone course, taken during the last semester)**</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4220 Business Assessment Test</td>
<td>0</td>
</tr>
</tbody>
</table>

*INFSYS 1800 can be waived by exam. See website: [http://mis.umsl.edu/B.S.%20in%20I.S./1800waiverrequest.html](http://mis.umsl.edu/B.S.%20in%20I.S./1800waiverrequest.html)

**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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFSYS 3806 Mgrl. Appl. of Object-Oriented Programming I</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3816 Mgrl. Appl. of Object-Oriented Programming II</td>
<td>3</td>
</tr>
</tbody>
</table>

B) Three Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFSYS 3810 Information Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3845 Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 4850 Information Systems Design</td>
<td>3</td>
</tr>
</tbody>
</table>

C) A student must complete two courses (6 hours) from the following to include at least one (INFSYS) course at the 3000/4000-level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFSYS 3807 Legacy Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3815 Object-Oriented Applications in Business</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3841 Enterprise Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3842 Management of Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3843 Decision Support Systems for Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3844 Developing Business Applications in .NET</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3846 E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3847 Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3848 Security and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3890 Internship in Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3895/3898 Special Adm Problems/Seminar in INF SYS</td>
<td>3</td>
</tr>
<tr>
<td>INFSYS 3899 Independent Study</td>
<td>3</td>
</tr>
</tbody>
</table>

See reverse side for additional 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

**SECOND SEMESTER**

* MATH 1100 Basic Calculus
* ECON 1001 Principles of Microeconomics
* State Requirement Course
* Humanities/Fine Arts Goal
* INFYS 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
* INFYS 3806 Managerial Applications of Object-Oriented Prog. I

**FOURTH SEMESTER**

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

**FIFTH SEMESTER**

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

**SIXTH SEMESTER**

* FINANCE 3500 Financial Management
* MKTG 3700 Basic Marketing
* INFYS 3845 Database Management Systems
* Cultural Diversity Course
* Life/Natural Sciences Goal (lecture only)

**SEVENTH SEMESTER**

* INFYS 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 is not a required course but students are **strongly** encouraged to take it during their Freshman year.

** INFYS 1800 Computers and Information Systems meets this requirement and is a prerequisite for INFYS 2800 Information Systems Concepts and Applications. This prerequisite can be waived by exam. See website: [http://mis.umsl.edu/B.S.%20in%20I.S./1800waiverrequest.html](http://mis.umsl.edu/B.S.%20in%20I.S./1800waiverrequest.html)

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

- INFYS 3807 Legacy Systems
- INFYS 3815 Object-Oriented Applications in Business
- INFYS 3841 Enterprise Information Systems
- INFYS 3842 Management of Telecommunications
- INFYS 3843 Decision Support Systems for Business Intelligence
- INFYS 3844 Developing Business Applications in .NET
- INFYS 3846 E-Commerce
- INFYS 3847 Web Design
- INFYS 3848 Security and Information Systems
- INFYS 3890 Internship in Management Information Systems
- INFYS 3895/3898 Special Adm Problems/Seminar in INF SYS Mgmt
- INFYS 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 4300 Introduction to Artificial Intelligence
- CMP SCI 4760 Operating Systems

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

The INFYS 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.