MANAGEMENT INFORMATION SYSTEMS: DATA SCIENCE, BSBA

Requirements for Students Matriculating in or before Academic Year 2019-2020. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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American History & Government

HIST 1103 | Survey of American History                                           | 3     |
| or HIST 1483 | American History to 1865 (H)                                        |       |
| or HIST 1493 | American History Since 1865 (DH)                                    |       |

POLS 1113 | American Government                                                 | 3     |

Analytical & Quantitative Thought (A)

MATH 1483 | Mathematical Functions and Their Uses (A)                           | 3     |
| or MATH 1513 | College Algebra (A)                                                |       |

Humanities (H)

Courses designated (H)                                           | 6     |

Natural Sciences (N)

Must include one Laboratory Science (L) course                   | 7     |

Social & Behavioral Sciences (S)

Course designated (S)                                           | 3     |

Additional General Education

MATH 2103 | Business Calculus (A)                                               | 3     |

MGMT 3013 | Fundamentals of Management (S)                                      | 3     |

MKTG 3213 | Marketing (S)                                                      | 3     |

Hours Subtotal                                                 | 40    |

Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan                 |       |
At least one Diversity (D) course                               |       |
At least one International Dimension (I) course                 |       |

College/Departmental Requirements

Business Freshman Seminar

BADM 1111 | Business First Year Seminar                                        | 1     |

Career Planning for Business Success

BADM 2111 | Career Planning for Business Success                                | 1     |

Professional Development for Business Development

BADM 3111 | Professional Development for Business Success                      | 1     |

Hours Subtotal                                                 | 3     |

Major Requirements

A minimum GPA of 2.20 is required in these 66 hours

Common Body

ACCT 2003 | Survey of Accounting                                               | 3     |

BADM 3113 | Interpersonal Skills                                                | 3     |

ECON 2003 | Microeconomic Principles for Business                              | 3     |

ECE 2023 | Introduction to Entrepreneurship                                   | 3     |

FIN 3113 | Finance                                                            | 3     |

LSB 3213 | Legal and Regulatory Environment of Business                       | 3     |

MSIS 4513 | Strategic Management                                               | 3     |

MSIS 2103 | Business Data Science Technologies                                  | 3     |

MSIS 3223 | Principles of Data Analytics                                       | 3     |

Management Information Systems Major Requirements

A GPA of 2.00 is required in these 39 hours of Management Information Systems Major Requirements

20 of these 39 hours must be in residence at OSU

MSIS 2203 | Computer Programming for Business                                  | 3     |

MSIS 4123 | Information Assurance Management                                    | 3     |

MSIS 3333 | Database Systems Design, Management and Administration             | 3     |

MSIS 3363 | Web Application Development                                        | 3     |

MSIS 4003 | Systems Analysis and Design                                        | 3     |

MSIS 4033 | Information Systems Project Management and Communication           | 3     |

Select 12 hours of the following:                                | 12    |

MSIS 3233 | Management Science - Prescriptive Analytics                        |       |

MSIS 3243 | Descriptive Analytics                                              |       |

MSIS 4263 | Business Intelligence and Predictive Analytics                     |       |

MSIS 4623 | Data Science Programming                                           |       |

MSIS 4673 | Data Visualization                                                  |       |

Select 9 hours of the following:                                 | 9     |

ACCT 3103 | Intermediate Accounting I                                          |       |

ACCT 3113 | Intermediate Accounting II                                         |       |

ACCT 3203 | Cost Accounting                                                    |       |

ACCT 3603 | Accounting Information Systems                                     |       |

ACCT 4653 |                                                                 |       |

CS 2133 | Computer Science II                                                |       |

CS 2351 | Unix Programming                                                    |       |

CS 2433 | C/C++ Programming                                                   |       |

Any upper-division CS courses except CS 4113 and CS 4883         |       |

ECON 4213 | Econometric Methods                                                |       |

ECON 4223 | Business and Economic Forecasting                                  |       |

FIN 4223 | Investments                                                        |       |

FIN 4333 | Financial Management                                               |       |

IEM 4103 | Quality Control                                                    |       |

IEM 4203 | Facilities and Material Handling System Design                     |       |
Management Information Systems: Data Science, BSBA

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<tr>
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<tr>
<td>IEM 4713</td>
<td>Systems Simulation Modeling</td>
</tr>
<tr>
<td>MATH 3013</td>
<td>Linear Algebra (A)</td>
</tr>
<tr>
<td>MATH 4553</td>
<td>Introduction to Optimization</td>
</tr>
<tr>
<td>MKTG 3323</td>
<td>Consumer and Market Behavior</td>
</tr>
<tr>
<td>MKTG 3513</td>
<td>Sales Management</td>
</tr>
<tr>
<td>MKTG 4223</td>
<td>Supply Chain Management</td>
</tr>
<tr>
<td>MKTG 4333</td>
<td>Marketing Research</td>
</tr>
<tr>
<td>MKTG 4773</td>
<td>Services Marketing</td>
</tr>
<tr>
<td>MSIS</td>
<td>any upper division courses</td>
</tr>
<tr>
<td>STAT 3013</td>
<td>Intermediate Statistical Analysis</td>
</tr>
<tr>
<td>STAT 4033</td>
<td>Engineering Statistics</td>
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<tr>
<td>STAT 4043</td>
<td>Applied Regression Analysis</td>
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<tr>
<td>STAT 4053</td>
<td>Statistical Methods I for the Social Sciences (A)</td>
</tr>
<tr>
<td>STAT 4203</td>
<td>Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT 4213</td>
<td>Mathematical Statistics II</td>
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**Hours Subtotal** 66

**Electives**

Select 11 hours

May be selected from any upper- or lower-division area except activity courses in LEIS and PE and lower-division AERO and MLSC. Twelve credit hours earned in advanced AERO and MLSC, exclusive of credit earned for summer camp, may be included in the 120 hours.

**Hours Subtotal** 11

**Total Hours** 120

1. Courses also meet College and Departmental Requirements and cannot be waived with an Associate's degree.
2. MGMT 3013 Fundamentals of Management (S) and MKTG 3213 Marketing (S) are common body requirements, but are counted in general education requirements.

**Other Requirements**

1. A minimum of 50 percent of the business hours required for a degree must be in residence at OSU.
2. Forty-five hours of upper division courses required.

**Additional State/OSU Requirements**

- **At least:** 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 and 50% of the upper-division hours in the major field completed at OSU.
- **Limit of:** one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2025.