MANAGEMENT INFORMATION SYSTEMS: DATA SCIENCE, BSBA

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.50
Total Hours: 120

Code	Title	Hours
General Education Requirements		
English Composition		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
ENGL 1213	Composition II	3
or ENGL 1413	Critical Analysis and Writing II	
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)		
3 hours of MATH or STAT designated "A"		3
Humanities (H)		
Courses designated (H)		6
Natural Sciences (N)		
Must include one Laboratory Science (L) course		
Courses designated (N) with one (L)		7
Social & Behavioral Sciences (S)		
Course designated (S)		3
Additional General Education		
MSIS 2233	Business Analytics Fundamentals (A) [1]	3
MGMT 3013	Fundamentals of Management (S) [1,2]	3
MKTG 3213	Marketing (S) [1,2]	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		
Freshman Seminar		
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
BADM 2111	Career Planning for Business Success [1]	1
Professional Development for Business Development		
BADM 3111	Professional Development for Business Success [1]	1
Hours Subtotal		**3**
Major Requirements		
A minimum GPA of 2.20 is required in these 67 hours		
Common Body [2]		
ACCT 2003	Survey of Accounting [1,3]	3
or ACCT 2103 & ACCT 2203	Financial Accounting and Managerial Accounting	
BADM 3113	Practical Business and Interpersonal Skills [1]	3
ECON 2003	Microeconomic Principles for Business [1]	3
EEE 2023	Introduction to Entrepreneurship	3
FIN 3113	Finance	3
LSB 3213	Legal and Regulatory Environment of Business	3
MGMT 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 40 hours of Management Information Systems Major Requirements		
21 of these 40 hours must be in residence at OSU		
MSIS 2203	Computer Programming for Business	3
MSIS 3333	Database Systems Development	3
MSIS 3363	Web Application Development	3
MSIS 4003	Systems Analysis and Design	3
MSIS 4033	Information Systems Project Management and Communication	3
MSIS 4111	Technology Success Skills Application	1
MSIS 4123	Cybersecurity Systems Management	3
Select 12 hours of the following:		12
MSIS 3233	Management Science - Prescriptive Analytics	
MSIS 3243	Descriptive Analytics	
MSIS 3253	Supply Chain Operations and Analytics	
MSIS 3293	Business Analytics Programming	
MSIS 4263	Business Intelligence and Predictive Analytics	
MSIS 4443	Advanced Topics in Analytics and Artificial Intelligence	
MSIS 4623	Data Science Programming	
MSIS 4673	Data Visualization	
MSIS 4943	Sports Management Analytics	
Select 9 hours of the following:		9
Any upper-division ACCT, ECON, FIN, EEE, MKTG, MGMT, MSIS, HTM, MATH, and STAT.		
Any CS courses except CS 1111, CS 4113 and CS 4883.		
Hours Subtotal		**67**
Electives		
Select 10 hours [3]		10

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	**10**
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.

3

If ACCT 2103 and ACCT 2203 are substituted for ACCT 2003, hours in the Elective block are reduced by 3.

4

C or better is required.

Other Requirements

1. A minimum of 50 percent of the business hours required for a degree must be OSU delivered in residence or OSU online courses.
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 or 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 2030.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
UNIV 1111	First Year Seminar	1
ENGL 1113 or ENGL 1313	Composition I or Critical Analysis and Writing I	3
HIST 1103 or HIST 1483 or HIST 1493	Survey of American History or American History to 1865 (H) or American History Since 1865 (DH)	3
MSIS 2103	Business Data Science Technologies	3
3 hours of MATH or STAT designated 'A'		3
Social Science (S with D or I designations)		3
Hours		**16**
Spring		
MSIS 2203	Computer Programming for Business	3
ENGL 1213 or ENGL 1413	Composition II or Critical Analysis and Writing II	3
MSIS 2233	Business Analytics Fundamentals (A)	3
ECON 2003	Microeconomic Principles for Business	3
Natural Science with Lab (LN)		4
Hours		**16**
Sophomore		
Fall		
EEE 2023	Introduction to Entrepreneurship	3
BADM 2111	Career Planning for Business Success	1
ACCT 2003	Survey of Accounting	3
MSIS 3333	Database Systems Development	3
MSIS 3223	Principles of Data Analytics	3
MKTG 3213	Marketing (S)	3
Hours		**16**
Spring		
MSIS 3363	Web Application Development	3
MGMT 3013	Fundamentals of Management (S)	3
POLS 1113	American Government	3
3 hours from 12 hour list in major		3
Humanities (H with D or I designation)		3
Hours		**15**
Junior		
Fall		
BADM 3111	Professional Development for Business Success	1
FIN 3113	Finance	3
MSIS 4003	Systems Analysis and Design	3
MSIS 4123	Cybersecurity Systems Management	3
3 hours from 12 hour list in major		3
Humanities (H with D or I designation)		3
Hours		**16**
Spring		
LSB 3213	Legal and Regulatory Environment of Business	3
MSIS 4033	Information Systems Project Management and Communication	3
BADM 3113	Practical Business and Interpersonal Skills	3
3 hours from 12 hour list in major		3
3 hours from 9 hour list in major		3
Hours		**15**
Senior		
Fall		
MSIS 4111	Technology Success Skills Application	1
3 hours from 12 hour list in major		3
3 hours from 9 hour list in major		3
3 hours of electives		3
Natural Science (N)		3
Hours		**13**
Spring		
MGMT 4513	Strategic Management	3
3 hours from 9 hour list in major		3
3 hours of electives		3
3 hours of electives		3
1 hour of elective		1
Hours		**13**
Total Hours		**120**