

# BACHELOR OF SCIENCE WITH A MAJOR IN INFORMATION SYSTEMS

## REQUIREMENTS

The following requirements must be fulfilled:

Code	Title	Credits
<b>General education and pre-business courses</b>		
UW 1020	University Writing	
One critical analysis in the humanities course <sup>1</sup>		
One scientific reasoning with lab course. <sup>1</sup>		
Code	Title	Credits
<b>Pre-business courses</b>		
BADM 1001 & BADM 1002	First-Year Development Course I and First-Year Development Course II	
or BADM 1003	Transfer Student Development Course	
BADM 3001	Career Management Strategy	
BADM 4001	Leadership and Career Launch	
ECON 1011	Principles of Economics I	
ECON 1012	Principles of Economics II	
DNSC 1001	Business Analytics I: Statistics for Descriptive and Predictive Analytics	
or APSC 3115	Engineering Analysis III	
or STAT 1051	Introduction to Business and Economic Statistics	
or STAT 1053	Introduction to Statistics in Social Science	
or STAT 1111	Business and Economic Statistics I	
STAT 2118	Regression Analysis	
or ECON 2123	Introduction to Econometrics	
or STAT 2123	Introduction to Econometrics	
One of the following two-course sequences in mathematics <sup>2</sup>		
MATH 1051 & MATH 1252	Finite Mathematics for the Social and Management Sciences and Calculus for the Social and Management Sciences	

MATH 1231 & MATH 1232      Single-Variable Calculus I and Single-Variable Calculus II

### Business core courses

MATH 1220 & MATH 1221      Calculus with Precalculus I and Calculus with Precalculus II

or MATH 1231      Single-Variable Calculus I

BADM 2301      Management Information Systems Technology

Four courses selected from the following:

ACCY 2001      Introduction to Financial Accounting

ACCY 2002      Introductory Managerial Accounting

BADM 2001      Markets and Politics

or BADM 2001W      Markets and Politics

BADM 3103      Human Capital in Organizations

BADM 3401      Contemporary Marketing Management

or BADM 3401W      Contemporary Marketing Management

BADM 3501      Financial Management and Markets

BADM 3601      Operations Management

BADM 4101      Business Ethics and the Legal Environment

or BADM 4101W      Business Ethics and the Legal Environment

BADM 4801      Strategy Formulation and Implementation

IBUS 3001      Introduction to International Business

### Information systems courses

ISTM 3119      Introduction to Programming

ISTM 4120      Business Systems Development

ISTM 4121      Database Principles and Applications

ISTM 4205      Web Applications Development

ISTM 4206      Foundations of Information Systems Security and Ethics

ISTM 4209      Foundations of Web Analytics

ISTM 4210      Information Systems Capstone

Three courses selected from the following:

ISTM 4213      Foundations of Cloud Applications

ISTM 4214	Foundations of Artificial Intelligence
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ISTM 4216	Mobile Application Development
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ISTM 4217	Internet of Things Management
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### **Electives**

In general, students complete 43 credits in elective courses, or the minimum necessary to reach 120 credits for the degree. 18 of those credits must be taken outside of GWSB. Elective courses may be numbered 1000 to 4999. Electives may not include LSPA (Lifestyle, Sport, and Physical Activity) courses and may include a maximum of one HLWL (Health and Wellness) course. Students may use electives for an additional concentration, a second GWSB or non-GWSB major, or a minor.

<sup>1</sup>See University General Education Requirement (<http://bulletin.gwu.edu/university-regulations/general-education/>) for a list of approved courses.

<sup>2</sup>Students should meet with a GWSB academic advisor to discuss other options for fulfilling the mathematics requirement.

<sup>3</sup>Freshmen are required to take BADM 1001 and BADM 1002, transfer students are required to take BADM 1003.

<sup>4</sup>BADM 3001 is offered with industry-specific sections and should be completed during the sophomore year, following successful completion of BADM 1001 and 1002, or BADM 1003.

<sup>5</sup>BADM 4001 is offered with experiential-specific sections and should be completed in the senior year.