

# Business Information Management, B.S.

As the business environment becomes increasingly global and information-centric, the need has increased for graduates who understand and can use technology that gathers and provides information, who are able to distill and recognize patterns in that information, and who can apply those analyses to achieve business objectives.

The undergraduate Business Information Management major administered by the Donald Bren School of Information and Computer Sciences is a collaborative, interdisciplinary degree program between the Bren School and The Paul Merage School of Business. The program seeks to educate students to understand and then apply the theories and concepts of a broad, integrated curriculum covering computing, informatics, business fundamentals, and analytical decision-making. The major prepares students for a wide variety of careers and life experiences. Business Information Management majors can pursue careers in the for-profit and not-for-profit sectors or can proceed to graduate school in several disciplines, including information systems, computing, economics, business, and law.

The curriculum is presented across three general academic areas: Computing (computer science, informatics, and software); Business Foundations (accounting, finance, marketing, strategy, and operations); and Analytical Methods (mathematics, statistics, economics, management science, and decision analysis). The fundamentals of information and computer science, including the rudiments of software design and construction with an emphasis on data management, provide the foundation for understanding, describing, and evaluating the technology through which most business information is gathered and presented. The business fundamentals, covering all the functional areas in the Merage School, provide a background and context in which information and its analysis will be applied.

Admission into this major is limited. If the number of Business Information Management applicants exceeds the number of positions available, applicants may be subject to screening beyond minimum University of California admissions requirements.

**Freshmen Applicants:** See the Undergraduate Admissions section (<http://catalogue.uci.edu/informationforprospectivestudents/undergraduateadmissions/#admissionasafreshmanapplicanttext>).

**Transfer Applicants:** See the Undergraduate Admissions section (<http://catalogue.uci.edu/informationforprospectivestudents/undergraduateadmissions/#admissionasatransferapplicanttext>).

**All students must meet the University Requirements (<http://catalogue.uci.edu/informationforadmittedstudents/requirementsforabachelorsdegree/>).**

## Major Requirements

<b>A. Lower-Division: Complete one of the following course groups:</b>	
Group 1	
I&C SCI 31	Introduction to Programming
I&C SCI 32	Programming with Software Libraries
I&C SCI 33	Intermediate Programming
Group 2	
I&C SCI H32	Python Programming and Libraries (Accelerated)
I&C SCI 33	Intermediate Programming
<b>B. Complete the following:</b>	
I&C SCI 45J	Programming in Java as a Second Language
IN4MATX 43	Introduction to Software Engineering
<b>C. Complete the following:</b>	
MATH 2A- 2B	Single-Variable Calculus I and Single-Variable Calculus II
I&C SCI 6D	Discrete Mathematics for Computer Science
I&C SCI 6N	Computational Linear Algebra
or MATH 3A	Introduction to Linear Algebra
STATS 7	Basic Statistics <sup>1</sup>
or STATS 8	Introduction to Biological Statistics
or STATS 67	Introduction to Probability and Statistics for Computer Science
<b>D. Complete the following:</b>	
ECON 20A- 20B	Basic Economics I and Basic Economics II

MGMT 30A- 30B	Principles of Accounting I and Principles of Accounting II
<b>E. Upper-Division Core:</b>	
MGMT 101	Management Science
MGMT 102	Managing Organizational Behavior
MGMT 105	Introduction to Marketing
MGMT 107	Introduction to Management Information Systems
MGMT 109	Introduction to Managerial Finance
MGMT 110	Strategic Management
MGMT 173	Business Intelligence for Analytical Decisions
MGMT 178	Management of Information Technology
MGMT 189	Operations Management
COMPSCI 121/IN4MATX 141	Information Retrieval
COMPSCI 122A/EECS 116	Introduction to Data Management
IN4MATX 113	Requirements Analysis and Engineering
IN4MATX 143	Information Visualization
STATS 110	Statistical Methods for Data Analysis I
<b>F. Electives:</b>	
Select five upper-division courses, except independent study and internships, with at least three of the five courses to be taken within the Bren School. Upper-division courses completed via the UC Education Abroad Program may also be utilized toward this requirement upon prior approval by the Bren School of ICS Student Affairs Office.	

1. MGMT 7 or any other Statistics course will not be accepted as a substitute for the STATS 7, STATS 8, or STATS 67 requirement. Please check with the ICS Student Affairs Office if considering a course outside of these three options.

NOTE: Students majoring in Business Information Management may not double major in Business Administration nor minor in Management, Innovation and Entrepreneurship, Informatics, or Information and Computer Science.

<b>Freshman</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
I&C SCI 31	I&C SCI 32	I&C SCI 33
MATH 2A	ECON 20A	I&C SCI 6B
WRITING 40	MATH 2B	ECON 20B
	WRITING 50	WRITING 60
<b>Sophomore</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
I&C SCI 45J	COMPSCI 122A	IN4MATX 43
I&C SCI 6D	MGMT 30B	MGMT 102
MGMT 30A	I&C SCI 6N	STATS 7, 8, or 67
General Education IV	General Education IV	General Education IV
<b>Junior</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
STATS 110	IN4MATX 113	IN4MATX 143
MGMT 107	MGMT 101	MGMT 105
MGMT 178	UD Writing	General Education VI
General Education III		
<b>Senior</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
I&C SCI UD Elective	IN4MATX 141	I&C SCI UD Elective
MGMT 109	MGMT 110	UD Elective
General Education VII	UD Elective	General Education VIII
MGMT 189	MGMT 173	

**NOTES:**

1. Students are advised that this sample program lists the minimum requirements; it is possible that students may have to take additional courses to prepare for required courses.
2. The lower-division writing requirement must be completed by the end of the seventh quarter at UCI.

3. This is only a sample plan. Course offerings may be moved due to unforeseen circumstances. It is strongly recommended that students meet with an academic advisor to create an academic plan tailored to meet their specific areas of interest.

4. ICS upper-division electives may be satisfied by courses offered by the Donald Bren School of Information and Computer Sciences only.

5. In the event that the MGMT 173 and/or MGMT 178 are not offered, MGMT 172 and MGMT 176 may be used as substitutes. If you are in need of this substitution, please see an ICS academic counselor immediately.

- Accounting, Minor
- Business Administration, B.A.
- Business Analytics, M.S.
- Innovation and Entrepreneurship, Minor
- Management, Minor
- Management, Ph.D.
- Master of Business Administration, Flex