

# BUSINESS INFORMATION SYSTEMS BS

## More Information

### Advising Requirement

Advising is mandatory for this program. Consult your department advisor or program coordinator for information.

### E-advising Tools

Students are encouraged to use the interactive e-advising tools that have been designed to help them graduate within four years. These tools can be accessed through the Student Center.

The Bachelor of Science in Business Information Systems requires completing a lower-division core prior to taking most upper-division core courses. Successful completion of the lower-division core allows students who have declared the BSIS major to advance to the upper-division core and into their specialty option courses. Business Information Systems currently offers three options: management information systems (MINS), operations and supply chain management (OSCM), and business analytics (BANA).

The management information systems option is the bridge that connects business with technology. MINS option focuses on innovative uses of technology to address business needs or to harness business opportunities. MINS students learn how to design, implement, maintain, and secure data and information systems that support business operations and managerial decision-making. They can serve in various organizational roles such as IT project manager, systems or business analyst, IT consultant, business intelligence analyst, and user experience (UX) designer.

The operations and supply chain management option integrates information systems with logistics and supply chains. This program combines enterprise resource planning (ERP) with an international business approach. The OSCM option focuses on designing, planning, execution, controlling, and monitoring the supply chain activities, which include movement and storage of raw materials, work-in-process inventory, and finished goods from the point of origin (the supplier) to the point of consumption (the business or retail customer).

The business analytics option focuses on identifying, exploring, and analyzing data for solving business problems. Students learn how to design databases, build data warehouses, manage big data, develop reporting and business intelligence platforms, visualize data, create dashboards, and apply appropriate analytical methods for business decision-making. Some of the topics covered include data mining, machine learning (ML), artificial intelligence (AI), data wrangling, SQL, NoSQL, OLAP, OLTP, descriptive, predictive, and prescriptive analytics.

Students who have declared the BSIS major must receive a verified grade of C or higher in each of the lower-division core courses in order to advance into most of the upper-division core and option courses. If students receive a grade of C- or lower in one of the lower-division core courses, that course must be repeated until a grade of C or higher is attained. Courses for the BSIS majors are listed under Course Requirements for the Major.

More information about College of Business programs, with helpful advising information for first-year and transfer students, is available by contacting

Business Student Advising and Services  
Glenn Hall 321  
530-898-4480  
Email: [businessadvisor@csuchico.edu](mailto:businessadvisor@csuchico.edu)

## Grading Requirement

All courses taken to fulfill program course requirements must be taken for a letter grade except those courses specified by the department as credit/no credit grading only.

## Course Requirements for the Major: 72 units

Completion of the following courses, or their approved transfer equivalents, is required of all candidates for this degree. Courses in this program may complete more than one graduation requirement.

### Major Core

Students in the major must complete each of the following 8 lower-division core courses with a C or higher. The lower-division core must be completed prior to taking upper-division courses with the exception of BCOM 300W, BSIS 301, and BSIS 444, which can be completed prior to completing all the lower-division core. Students are advised to take MATH 107, but MATH 109 or MATH 120 will be accepted.

Students must complete the lower-division core prior to taking upper-division core courses, except for BCOM 300W, BSIS 301, and BSIS 444.

Course	Title	Units
<b>Lower Division</b>		
ACCT 201	Introduction to Financial Accounting	3
ACCT 202	Introduction to Managerial Accounting	3
BLAW 203	Introduction to Business Law	3
ECON 102	Principles of Macroeconomic Analysis	3
ECON 103	Principles of Microeconomic Analysis	3
MATH 107	Finite Mathematics for Business	3
MATH 108	Statistics of Business and Economics	3
MINS 235	Database Design	3
<b>Upper Division</b>		
BCOM 300W	Communication in Business (W)	3
BSIS 301	Enterprise Technology Integration	3
BSIS 308	Decision Analysis for Business	3
BSIS 444	Systems Project Management	3
FINA 307	Survey of Finance	3
MGMT 303	Survey of Management	3
MKTG 305	Survey of Marketing	3
OSCM 306	Operations Management	3
<b>Capstone</b>		
BSIS 496W	Strategic Issues for Information Systems Professionals (W)	3
<b>Major Option</b>		
Select one of the following options:		21
Business Analytics (p. 2)		

Management Information Systems (p. 2)	
Operations and Supply Chain Management (p. 2)	
<b>Total Units</b>	<b>72</b>

## Major Option Course Requirements

Students must select one of the following options for completion of the major course requirements.

### Business Analytics Option: 21 units

Course	Title	Units
BSIS 460	Data Analytics	3
MINS 335	Database Application Development	3
MINS 526	Business Intelligence and Data Warehousing: Design and Development	3
MINS 546	E-Commerce and Cloud Computing in Business	3
Select nine units from the following:		9
BADM 389	Internship in Business Admin	
BSIS 320	Computational Business Analysis and Programming	
BSIS 420	Enterprise Resource Planning: Systems Configuration and Use	
BSIS 499	Special Problems <sup>1</sup>	
MGMT 456	Entrepreneurial Analytics	
MINS 350	Business Systems Analysis	
MINS 498	Special Topics in Management Information Systems <sup>1</sup>	
MINS 535	Database Administration	
MINS 536	Security and Privacy Issues in Information Technology	
OSCM 440	Supply Chain Management	
OSCM 441	Purchasing and Global Sourcing	
OSCM/MKTG 471	Distribution Systems and Channel Management	
<b>Total Units</b>		<b>21</b>

<sup>1</sup> Must be taken for 3 units.

### Management Information Systems Option: 21 units

Advising is mandatory to understand class sequencing and prerequisite requirements.

Course	Title	Units
BSIS 420	Enterprise Resource Planning: Systems Configuration and Use	3
MINS 325	Business Programming	3
MINS 335	Database Application Development	3
MINS 346	Data Communications and Networking	3
MINS 350	Business Systems Analysis	3
Select six units from the following:		6
BADM 389	Internship in Business Admin	
CINS 465	Web Programming Fundamentals	
MINS 446	Distributed Systems Management	
MINS 498	Special Topics in Management Information Systems <sup>1</sup>	

MINS 522	Enterprise Resource Planning: Systems Administration	
MINS 523	Enterprise Resource Planning: System Administration 2	
MINS 526	Business Intelligence and Data Warehousing: Design and Development	
MINS 535	Database Administration	
MINS 536	Security and Privacy Issues in Information Technology	
MINS 537	Information Storage and Management	
MINS 546	E-Commerce and Cloud Computing in Business	
<b>Total Units</b>		<b>21</b>

<sup>1</sup> Must be taken for 3 units.

### Operations and Supply Chain Management Option: 21 units

Course	Title	Units
OSCM 440	Supply Chain Management	3
OSCM 441	Purchasing and Global Sourcing	3
OSCM 442	Production Planning and Inventory Control	3
OSCM/AMAR 451	Quality Management	3
OSCM/MKTG 471	Distribution Systems and Channel Management	3
Select six units from the following:		6
BADM 389	Internship in Business Admin	
BLAW 414	Labor Law and Collective Bargaining	
MGMT 443	Organizational Design and Change	
MGMT 445	International Management	
MGMT 470	Business Dynamics	
MINS 335	Database Application Development	
MINS 350	Business Systems Analysis	
MINS 526	Business Intelligence and Data Warehousing: Design and Development	
OSCM 489	Intern/Cooperative Education <sup>1</sup>	
OSCM 498	Special Topics in Supply Chain Management <sup>1</sup>	
<b>Total Units</b>		<b>21</b>

<sup>1</sup> Must be taken for 3 units.

## Honors in the Major

Honors in the Major is a program of independent work in your major. It requires 6 units of honors course work completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are:

- You must take 6 units of Honors in the Major course work. All 6 units are honors classes (marked by a suffix of H), and at least 3 of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each class with a minimum grade of B.
- You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
- Your cumulative GPA should be at least 3.5 or within the top 5% of majors in your department.
- Your GPA in your major should be at least 3.5 or within the top 5% of majors in your department.
- Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
- Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.

Students may apply for admission to the Honors in the Major Program in the College of Business through any of the options offered. An honors student must meet all the requirements of the chosen option with a grade point average that places him or her in the top five percent of students enrolled within the option or must have at least a 3.5 grade point average in the business major. Each honors student must also complete 6 units of the honors courses in his or her option with a grade of B or higher. These units must result in a research paper which is publicly presented. See BADM 499H and courses numbered 499H in each option of the course offerings section. Please consult your department for specific information.

See Bachelor's Degree Requirements (<https://catalog.csuchico.edu/undergraduate-requirements/bachelors-degree-requirements/>) for complete details on general degree requirements. A minimum of 39 units, including those required for the major, must be upper division.

## General Education Requirements: 48 units

See General Education (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/>) and the Class Schedule (<http://www.csuchico.edu/schedule/>) for the most current information on General Education Requirements and course offerings.

This major has approved GE modification(s). See below for information on how to apply these modification(s).

- BSIS 308 is an approved major course substitution for Upper-Division Scientific Inquiry and Quantitative Reasoning (UD-B).

## Diversity Course Requirements: 6 units

You must complete a minimum of two courses that focus primarily on cultural diversity. At least one course must be in U.S. Diversity (USD) and at least one in Global Cultures (GC). See Diversity Requirements (<https://catalog.csuchico.edu/undergraduate-requirements/diversity->

requirements/) for a full list of courses. Most courses taken to satisfy these requirements may also apply to General Education (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/>).

## Upper-Division Writing Requirement

Writing Across the Curriculum (EM 17-009 (<http://www.csuchico.edu/prs/EMs/2017/17-009.shtml/>)) is a graduation requirement and may be demonstrated through satisfactory completion of four Writing (W) courses, two of which are designated by the major department. See Mathematics/Quantitative Reasoning and Writing Requirements (<https://catalog.csuchico.edu/undergraduate-requirements/mathematicsquantitative-reasoning-writing-requirements/>) for more details on the four courses. The first of the major designated Writing (W) courses is listed below.

- BSIS 496W Strategic Issues for Information Systems Professionals (W)

The second major-designated Writing course is the Graduation Writing Assessment Requirement (GW) (EO 665 (<https://calstate.policystat.com/policy/9585618/latest/>)). Students must earn a C- or higher to receive GW credit. The GE Written Communication (A2) (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/#A2>) requirement must be completed before a student is permitted to register for a GW course.