

BUSINESS INFORMATION SYSTEMS BS

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 Business Information Systems (BSIS) major to advance to the upper-division core and into their specialty option courses. Business Information Systems currently offers three options: business analytics (BANA), management information systems (MINS), and operations and supply chain management (OSCM).

The option in business analytics. The BANA 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.

The option in management information systems. The MINS option is the bridge that connects business with technology by focusing 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 option in operations and supply chain management. The OSCM 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).

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 D+ 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 (<https://www.csuchico.edu/cob/students/advising.shtml/>)

Glenn Hall 321

530-898-4480

Email: businessadvisor@csuchico.edu

Advising Requirement

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

E-advising Tools

Use the interactive e-advising tools designed to help students graduate within four years. These tools can be accessed through the Student Center in the Portal (<https://portal.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: 75 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 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, and MINS 301, 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.

Course	Title	Units
Lower Division		
ACCT 201	Introduction to Financial Accounting	3
ACCT 202	Introduction to Managerial Accounting	3
BADM 101	Business for the New Generation	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
Upper Division		
BCOM 300W	Communication in Business (W)	3
BSIS 308	Decision Analysis for Business	3
FINA 307	Survey of Finance	3
MGMT 303	Survey of Management	3
MINS 301	Corporate Technology Integration	3
MKTG 305	Survey of Marketing	3
OSCM 306	Operations Management	3
Capstone		
BSIS 496W	Strategic Issues for Information Systems Professionals (W)	3
Major Option		
Select one of the following options:		24
Business Analytics (p. 2)		
Management Information Systems (p. 2)		

Operations and Supply Chain Management (p. 2)

Course	Title	Units
BSIS 460	Data Analytics	3
BSIS 461	Business Analytics with Python	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 301	Enterprise Technology Integration	
BSIS 420	Enterprise Resource Planning: Systems Configuration and Use	
BSIS 444	Systems Project Management	
BSIS 499	Special Problems ¹	
MGMT 444	Managing Project Teams	
MGMT 456	Entrepreneurial Analytics	
MINS 350	Business Systems Analysis	
MINS 498	Special Topics in Management Information Systems ¹	
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	
Total Units		24

Major Option Course Requirements

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

Business Analytics Option: 24 units

Course	Title	Units
BSIS 460	Data Analytics	3
BSIS 461	Business Analytics with Python	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 301	Enterprise Technology Integration	
BSIS 420	Enterprise Resource Planning: Systems Configuration and Use	
BSIS 444	Systems Project Management	
BSIS 499	Special Problems ¹	
MGMT 444	Managing Project Teams	
MGMT 456	Entrepreneurial Analytics	
MINS 350	Business Systems Analysis	
MINS 498	Special Topics in Management Information Systems ¹	
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	
Total Units		24

¹ Must be taken for three units.

Management Information Systems Option: 24 units

Advising is mandatory to understand course 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 nine units from the following:		9
BADM 389	Internship in Business Admin	
BSIS 301	Enterprise Technology Integration	
BSIS 444	Systems Project Management	
BSIS 461	Business Analytics with Python	

CSCI 565	Server Side App Development	
MGMT 444	Managing Project Teams	
MINS 446	Distributed Systems Management	
MINS 498	Special Topics in Management Information Systems ¹	
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	
Total Units		24

¹ Must be taken for three units.

Operations and Supply Chain Management Option: 24 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 nine units from the following:		9
AMAR 458	Project Management	
BADM 389	Internship in Business Admin	
BLAW 414	Labor Law and Collective Bargaining	
BSIS 301	Enterprise Technology Integration	
BSIS 444	Systems Project Management	
BSIS 461	Business Analytics with Python	
MGMT 443	Organizational Design and Change	
MGMT 444	Managing Project Teams	
MGMT 445	International Management	
MGMT 470	Business Dynamics	
MGMT 471	Managing Multiple and Complex Projects	
MGMT 489E	Practicum in Project Management	
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 ¹	
OSCM 498	Special Topics in Supply Chain Management ¹	
Total Units		24

¹ Must be taken for three units.

Honors in the Major

Honors in the Major is a program of independent work in your major. It requires six units of honors coursework 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 six units of Honors in the Major coursework. All six units are honors courses (marked by a suffix of H), and at least three of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each course with a minimum grade of B.
- You must have completed 9 units of upper-division coursework 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 six units of coursework over the two semesters of their senior year.
- Your honors work culminates with a public presentation of your honors project.

Honors in the Major is not 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 them 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 six units of the honors courses in their 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: 43 units

See General Education (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education-academic-success/general-education/#general-education-requirements>) 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 Mathematical Concepts and Quantitative Reasoning (UD-2).

American Institutions Course Requirements: 6 units

The American Institutions graduation requirement, as mandated in Title 5, Section 40404 (<https://govt.westlaw.com/calregs/Document/I56C041434C6911EC93A8000D3A7C4BC3/?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPage>) requires that students satisfactorily complete courses in United States history, the US Constitution, and government and American ideals (including California state and local government). At Chico State, HIST 130 meets the US history requirement (US-1), and POLS 155 meets the US Constitution and government requirement (US-2) and the California state and local government requirement (US-3). POLS 155 also fulfills three units of GE Area 4, Social and Behavioral Sciences. See Bachelor's Degree Requirements (<https://catalog.csuchico.edu/undergraduate-requirements/bachelors-degree-requirements/#amin>) for more information.

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 US 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. Many courses taken to satisfy these requirements may also apply to General Education (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education-academic-success/general-education/>).

Upper-Division Writing Requirement

Writing Across the Curriculum (EM 17-009 (<https://www.csuchico.edu/pres/em/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 Writing and Math Requirements (<https://catalog.csuchico.edu/undergraduate-requirements/writing-math-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 English Composition (1A) (<https://catalog.csuchico.edu/colleges-departments/undergraduate-education-academic-success/>)

general-education/#1A) requirement must be completed before a student is permitted to register for a GW course.

Definition of Blended Programs

A blended bachelor's and master's degree program combines an existing Chico State bachelor's degree with an existing Chico State master's degree; the blended program allows up to 12 units of the graduate program units to be double-counted at the undergraduate level, for a minimum of 138 units to receive both degrees. Students who complete a blended program will receive both a bachelor's and master's degree. Upon completion of 120 semester units and with the completion of all requirements for the bachelor's degree, students in blended programs will be awarded the bachelor's degree. Upon completion of the requirements for the master's degree, students will be awarded the master's degree.

Students interested in applying to a blended program must be enrolled in a bachelor's degree program at Chico State and must meet and maintain the minimum GPA of the existing master's degree entrance requirements for all bachelor's coursework completed at the time of the application to the blended program, or show promise to reach this level as determined by the program. Once admitted to the blended program, students shall not be required to apply for admission to the master's program.

Blended Business Information Systems BS + Business Administration MBA

The blended program allows students to count up to three courses (nine units) toward either the undergraduate business analytics or management information systems option and the MBA business analytics option. Students in the blended program can earn the MBA in as few as two additional semesters. Once accepted into the blended program as an undergraduate, students take up to nine units of courses chosen in consultation with an advisor. Contact Business Student Advising and Services (businessadvisor@csuchico.edu) in GLENN 321 for more information.

Eligibility

The blended program is for highly motivated, well-qualified students. The program allows a student to apply after completing 60 units toward their bachelor's degree with a minimum GPA of 2.5.

Application Procedure

Application deadlines: April 1 for fall start, November 1 for spring start.

Students who meet the eligibility criteria may submit an application for admission to the blended program (<https://csuchico.my.site.com/BlendedProgram/s/>). Formal application through Cal State Apply is not necessary and the student is not required to pay an application fee. GRE scores are not required. Students must meet the requirements outlined below to change to blended graduate status and continue toward the master's degree.

Grading Requirement

Once in the blended program, students must maintain a minimum 3.0 GPA during their remaining undergraduate and graduate semesters.

Transition to Graduate Status

Students can transition to the graduate program after completing all undergraduate degree requirements with a minimum 2.5 GPA in all coursework. The Office of Graduate Studies and the Graduate Coordinator will verify graduate program eligibility at the end of the semester in

which the bachelor's degree is completed. Qualified students change to graduate status effective the following semester.

Requirements for the Blended BS + MBA

Business analytics option: The blended program allows BSIS 460, BSIS 620, and MINS 526 to count toward both degrees.

Management information systems option: The blended program allows BSIS 460, BSIS 620, and MINS 526 to count toward both degrees.