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 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 OCSM option integrates information systems with logistics and supply chains. This program combines enterprise resource planning (ERP) with an international business approach. The OCSM 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

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 eight 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.

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## Major Option Course Requirements

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

### Business Analytics Option: 24 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSIS 460</td>
<td>Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MINS 335</td>
<td>Database Application Development</td>
<td>3</td>
</tr>
<tr>
<td>MINS 526</td>
<td>Business Intelligence and Data Warehousing: Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>MINS 546</td>
<td>E-Commerce and Cloud Computing in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 units from the following:

- BADM 389 Internship in Business Admin
- BSIS 301 Enterprise Technology Integration
- BSIS 320 Computational Business Analysis and Programming
- BSIS 420 Enterprise Resource Planning: Systems Configuration and Use
- BSIS 444 Systems Project Management
- BSIS 499 Special Problems
- MGMT 444 Managing Project Teams
- MGMT 456 Entrepreneurial Analytics
- MINS 350 Business Systems Analysis
- MINS 498 Special Topics in Management Information Systems
- MINS 535 Database Administration
- MINS 536 Security and Privacy Issues in Information Technology
- 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.

### Management Information Systems Option: 24 units

Advising is mandatory to understand course sequencing and prerequisite requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSIS 420</td>
<td>Enterprise Resource Planning: Systems Configuration and Use</td>
<td>3</td>
</tr>
<tr>
<td>MINS 325</td>
<td>Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>MINS 335</td>
<td>Database Application Development</td>
<td>3</td>
</tr>
<tr>
<td>MINS 346</td>
<td>Data Communications and Networking</td>
<td>3</td>
</tr>
<tr>
<td>MINS 350</td>
<td>Business Systems Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select nine units from the following:

- BADM 389 Internship in Business Admin
- BSIS 301 Enterprise Technology Integration
- BSIS 444 Systems Project Management
- MGMT 443 Organizational Design and Change
- MGMT 444 Managing Project Teams
- 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
- OSCM 498 Special Topics in Supply Chain Management

**Total Units: 24**

1. Must be taken for three units.

### Operations and Supply Chain Management Option: 24 units

Select nine units from the following:

- BADM 389 Internship in Business Admin
- BLAW 414 Labor Law and Collective Bargaining
- BSIS 301 Enterprise Technology Integration
- BSIS 444 Systems Project Management
- MGMT 443 Organizational Design and Change
- MGMT 444 Managing Project Teams
- 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
- OSCM 498 Special Topics in Supply Chain Management

**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.

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 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: 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 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. 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.policysat.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.