COMPUTER INFORMATION SYSTEMS (CINS)

See Course Description Symbols and Terms (https://catalog.csuchico.edu/academic-standards-policies/course-description-symbols-terms/) for an explanation of course description terminology and symbols, the course numbering system, and course credit units.

CINS 220  PCs and Peripherals  3 Units
Typically Offered: Fall and spring
This course focuses on the hardware and software of the modern PC, currently available peripherals and upgrades, and the basics of networking. Included will be a survey of the pros and cons of different hardware choices for various PCs, peripherals, and networking options. 2 hours activity, 2 hours discussion. (002337)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

CINS 242  Information Systems Design  3 Units
Prerequisite: CSCI 111 with a grade of C or higher.
Typically Offered: Fall only
Systems analysis and design, and the role of Information Systems in organizations. Emphasis is on the project-team design approach. Operational criteria, system feasibility, requirements, and cost trade-offs. Integration of personnel, equipment, hardware, and software. 3 hours discussion. (002377)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

CINS 370  Introduction to Databases  3 Units
Prerequisite: CSCI 211; CSCI 211 or MATH 217, both with a grade of C or higher.
Typically Offered: Fall and spring
This course provides an introduction to the theory and methodology for database design and implementation. Topics may include a survey/lecture component as well as a project component. The survey component covers entity-relationship modeling, relational algebra and calculus theories, data definition and data manipulation languages such as SQL, file structures, transactions, concurrency control, recovery, tuning and optimization, and object-oriented databases. The project entails requirements definition, design, and implementation of a database application. 2 hours activity, 2 hours discussion. (002338)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CINS 448  Computer Security  3 Units
Prerequisite: CSCI 446 or EECE 446, with a grade of C or higher.
Typically Offered: Fall and spring
This course provides a broad overview of some of the more technical aspects of Information Systems Security. The content is designed to prepare students for the Certified Information Systems Security Professional/Associate (CISSP/A) examination from the International Information Systems Security Certification Consortium (ISP2), including a discussion of each of the following topics: security management practices; access control systems; telecommunications and network security; cryptography; security architecture and models; operations security; applications and systems development; business continuity planning and disaster recovery planning; law, investigation, and ethics; and physical security. 3 hours lecture. (020232)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CINS 465  Web Programming Fundamentals  3 Units
Prerequisite: CINS 370 with a grade of C or higher, CSCI 211 and MINS 335, or MINS 325 and MINS 335.
Typically Offered: Fall and spring
A hands-on project course that examines languages, tools, protocols, and techniques for developing interactive and dynamic web applications. Topics include the model-view-controller pattern, document object model, server side and client side scripting, using a server side database, and web applications security. The course includes several web projects using a web programming framework. 3 hours discussion. (002368)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CINS 467  Mobile Application Development  3 Units
Prerequisite: CINS 370 (with a grade of C or higher), CSCI 211 and MINS 335, or MINS 325 and MINS 335.
Typically Offered: Spring only
Implementation of native mobile applications using a modern framework. Topics include the model-view-controller design pattern, multi-touch event handling, sensory input handling, web service integration, multi-threading and custom user interface design. 3 hours discussion. (002365)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CINS 490  Computer Information Systems Capstone  3 Units
Prerequisite: CSCI 311 with a grade of C or higher; CINS 465 or CINS 467 with a grade of C or higher; Senior Standing.
Typically Offered: Fall and spring
This capstone course provides a culminating activity in computer information systems. Students work independently to specify, design, develop, test, and document a complete information systems application under faculty supervision. Students present status reports at weekly meetings, and present their finished project at the end of the semester. 9 hours supervision. (020996)
Grade Basis: Report in Progress: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division
CINS 548  Advanced Computer Security 3 Units
Prerequisite: CINS 448 with a grade of C or higher.
Typically Offered: Fall only
This course provides advanced training in the engineering and management of information systems security, particularly those systems that play a role in U.S. national security, and is aimed at professionals who plan to work either as contractors or federal employees in the area of national security or defense. The course also prepares students for the Information Systems Security Engineering Professional (ISSEP) certification test prepared by the International Information Systems Security Certification Consortium (ISP2) in collaboration with the National Security Agency. Specific areas of concentration are systems security engineering; certification and accreditation (CA); technical management; and U.S. Government Information Assurance (IA) regulations. 3 hours lecture. (020234)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CINS 570  Advanced Database Management Systems 3 Units
Prerequisite: CINS 370 with a grade of C or higher or MINS 335.
Typically Offered: Fall only
Course topics include database application programming using a high performance, high concurrency multi-user database management system. This course covers the SQL programming language including Data Definition Language, Data Manipulation Language, and Data Control Language. The course then focuses on a procedural database programming language including control structures, composite datatypes, explicit cursors, exception handling, and writing embedded SQL applications. 2 hours activity, 2 hours discussion. (002381)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division