

CATALOG INFORMATION

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Dept & Nbr: CSC 220 Title: INTRO COMPUTER SCIENCE
Full Title: Introduction to Computer Science

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 3.0	Lecture	2.5	17	Lecture	42.5
Min: 3.0	Lab	1.5		Lab	25.5
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	4.0		Contact Total	68.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic
Grading: GC Credit course for grade or CR/NC
Repeatability: 00 No repeatability allowed or defined
Also listed as:

CATALOG DESCRIPTION:

This course will provide an overview of the theory, foundations, and practice of computer science with emphasis on how computers work and how they are engineered. This course is appropriate for students who intend to major in computer science or pursue a programming curriculum.

PREREQUISITES:

COREQUISITES:

RECOMMENDED PREPARATION:

Completion of CSC 201.

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

Recommended: Completion of CSC 201.

This course will provide an overview of the theory, foundations, and practice of computer science with emphasis on how computers work and how they are engineered. This course is appropriate for students who intend to major in computer science or pursue a programming curriculum. (Grade or CR/NC)

Transfer Credit: CSU; UC.

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE: Effective: FALL 2007 Inactive:
Area: D2 COMMUNICATIONS & ANALYTICAL THINKING

CSU GE: Effective: Inactive:
Transfer area:

programming languages.

ASSIGNMENTS:

READING ASSIGNMENTS:

Assigned readings will include chapters from the text, and may include articles from computer magazines and/or journals, software tutorials, and related web-based materials.

WRITING ASSIGNMENTS:

Explain the key concepts from the course in writing on the exams and homework assignments. A minimum of one written report will be required on a current, relevant topic in computer science using a variety of sources including at least two articles from current computer magazines or journals.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of two hours of independent work outside of class for each unit of credit per week by doing the following:

1. Skills practice in using the operating system, computer applications, and utility programs demonstrated in class.
2. Completion of the assigned exercises and problems at a level appropriate for beginning programming students.
3. The development and written expression of designs and algorithms for solutions to programming problems at a level appropriate for beginning programming students.

METHOD OF INSTRUCTION:

METHODS OF EVALUATION:

WRITING ASSIGNMENTS: 1. Unit assignments requiring some written responses 2. A research paper of at least 500 words on a current and relevant topic in computer sciences Computational or non-computational problem-solving demonstrations: 1. Development of specifications for computer programs to solve given problems at a level appropriate for beginning students 2. Development and refinement of algorithms for creating computer programs and meeting the requirements as detailed in software specification documents, at a level appropriate for beginning students Skill demonstrations: 1. Use of the operating system using both the graphic user interface (GUI) and the command-line interface 2. Use of programming utilities, including editors, file transfer (FTP) programs, compilers, and integrated development environments (IDEs) Examinations: 1. Midterm and 2. Final Examinations Other methods of evaluation: 1. Students must submit responses to problem sets assigned at the end of each unit of instruction 2. Announced and unannounced quizzes may be given periodically throughout the term of instruction Problem sets (30%), quizzes and special projects (20%), midterm (20%), and final exam (30%)

BASIS FOR GRADING:

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

REPRESENTATIVE TEXTBOOKS:

Computer Science-An Introduction, Brookshear
The Essential Guide to Computing-The Story of Information Technology,
E. Garrison Walters, Prentiss Hall

REASON FOR REVISION

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Correcting oversights of incorrectly (1) excluding this course from the Credit by Exam list and (2) excluding it as an option for Educational Requirement D. Justification for including in Requirement D: According to California Code of Regulations for Associate Degree G.E. Criteria, #55806 states: "(D) Language and Rationality. Courses in language and rationality are those which develop for the student the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses." It continues with Part 2: "Communication and Analytical Thinking. Course fulfilling the communication and analytical thinking requirement include oral communications, mathematics, logic, statistics, computer languages and programming, and related disciplines." CSC 220 includes machine and high level programming as well as applications of language toward logical thought, clear and precise expression and critical evaluation of communication in a variety symbol system used inside the computer to store data and process instructions.

MISCELLANEOUS
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Advisory generate desc:	Y	YES
Area department:	CSC	COMPUTER SCIENCE
Audit flag:	N	NOT AUDITABLE
Basic skills:	X	NOT BASIC SKILLS
Classification:	I	Career-Technical Education
Cost level:	00	VALUE NOT FOUND
Disciplines:		COMPUTER SCIENCE
Division:	02	MERIDITH RANDALL
Faculty service areas:		COMPUTER SCIENCE
Fee:	\$0.00	
In-service:	X	NOT IN-SERVICE
Level below transfer:	X	NOT APPLICABLE
Matric-requiring:	X	Exempt from assessment
Maximum class size:	0	
Maximum wait list:	0	
Method of instruction:	03	LECTURE/LABORATORY
	99	OTHER/UNSPECIFIED METHOD OF INSTRUCTION
Non-credit category:	X	NOT APPLICABLE, CREDIT COURSE
Open entry/exit:	N	Not open entry/exit
Pacs activity:	0701	COMPUTER SCIENCE INFO GENERAL
Pacs program project:	0000	
Preq/coreq generate desc:	N	NO
Preq/coreq provisional:	N	NO
Preq/coreq reg check:	N	NO PREREQUISITE RULES EXIST
Repeat group id:		
Requires instructor sig:	N	INSTRUCTOR'S SIGNATURE NOT REQUIRED
SAM classification:	C	Clearly occupational
Selected/special topic:	N	NOT A SELECTED TOPIC COURSE
Special class:	X	NOT A SPECIAL COURSE
TOP code:	0701.00	INFORMATION TECHNOLOGY, GENERAL Workload:
	0.0000	