CS A280: CURRENT TOPICS IN COMPUTING

Item	Value
Curriculum Committee Approval Date	12/06/2023
Top Code	070100 - Information Technology, General
Units	1-4 Total Units
Hours	18-72 Total Hours (Lecture Hours 18-72)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

Course covers topics currently receiving attention by the computer industry. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Apply specific new technologies to solve business problems.
2. Compare and contrast new and previous technologies.

Course Objectives

- 1. Recognize needs for new technologies that could not be easily met by previous techniques.
- 2. Apply specific new technologies to solve business problems
- 3. Compare solutions to various problems using past and current techniques.
- 4. Assess the limits of current technologies and estimate the probable directions of future improvements.

Lecture Content

Content will depend upon specific topics being taught, and topic outlines for specific offerings will be available in the Business Education division office. Presentation of topics will include the following: 1. Background, including definitions of terminologies 2. Fundamental concepts and principles, including relationship of new topics to previous technologies 3. Disadvantages and difficulties created by previous technologies 4. Application of fundamental concepts and principles to solve various problems 5. Looking into the future

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)

Instructional Techniques

Lecture, demonstration, and guided hands-on exercises, as appropriate to topic

Reading Assignments

Students will complete reading assignments that will demonstrate their proficiency, as appropriate to topic.

Writing Assignments

Students will complete wreiting assignments that will demonstrate their proficiency, as appropriate to topic.

Out-of-class Assignments

Students will complete reading out-of-class assignments that will demonstrate their proficiency, as appropriate to topic.

Demonstration of Critical Thinking

Written final exam, quizzes, and weekly exercises, as appropriate to topic

Required Writing, Problem Solving, Skills Demonstration

Students will complete assignments that will demonstrate their proficiency, as appropriate to topic.

Eligible Disciplines

Computer science: Masters degree in computer science or computer engineering OR bachelors degree in either of the above AND masters degree in mathematics, cybernetics, business administration, accounting or engineering OR bachelors degree in engineering AND masters degree in cybernetics, engineering mathematics, or business administration OR bachelors degree in mathematics AND masters degree in cybernetics, engineering mathematics, or business administration OR bachelors degree in any of the above AND a masters degree in information science, computer information systems, or information systems OR the equivalent. Note: Courses in the use of computer programs for application to a particular discipline may be classified, for the minimum qualification purposes, under the discipline of the application. Masters degree required.

Other Resources

1. Text will vary according to topics selected for study. Selected handout materials will be provided and distributed by the instructor.