CPE 190: SENIOR DESIGN PROJECT I

In Workflow
1. EEE Committee Chair (pheedley@csus.edu)
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3. ECS College Committee Chair (figgess@csus.edu)
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10. Registrar's Office (wlindsey@csus.edu)
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Approval Path
1. Fri, 11 Sep 2020 21:38:47 GMT
   Mahyar Zarghami (mahyar.zarghami): Approved for EEE Committee Chair
2. Mon, 21 Sep 2020 17:25:56 GMT
   Mahyar Zarghami (mahyar.zarghami): Rollback to EEE Committee Chair for EEE Chair
3. Mon, 21 Sep 2020 18:12:57 GMT
   Perry Heedley (pheedley): Approved for EEE Committee Chair
4. Mon, 21 Sep 2020 18:47:25 GMT
   Mahyar Zarghami (mahyar.zarghami): Approved for EEE Chair
5. Fri, 23 Oct 2020 16:51:47 GMT
   Gareth Figgess (figgess): Approved for ECS College Committee Chair
6. Fri, 23 Oct 2020 17:13:22 GMT
   Kevan Shafizadeh (kevan): Approved for ECS Dean

Date Submitted: Sat, 22 Aug 2020 14:02:24 GMT

Viewing: CPE 190 : Senior Design Project I
Last edit: Fri, 23 Oct 2020 16:50:55 GMT

Changes proposed by: Fethi Belkhouche (212375151)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
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Catalog Title:
Senior Design Project I

Class Schedule Title:
Senior Design Project I

Academic Group: (College)
ECS - Engineering & Computer Science

Academic Organization: (Department)
Electrical and Electronic Engineering

Will this course be offered through the College of Continuing Education (CCE)?
No

Catalog Year Effective:
Fall 2021 (2021/2022 Catalog)

Subject Area: (prefix)
CPE - Computer Engineering

Catalog Number: (course number)
190

Course ID: (For administrative use only.)
110666

Units:
2

In what term(s) will this course typically be offered?
Fall, Spring

Does this course require a room for its final exam?
No, final exam does not require a room

Does this course replace an existing experimental course?
No

This course complies with the credit hour policy:
Yes

Justification for course proposal:
we are changing the pre-requisites for the course. The current pre-requisites are outdated and not adequate anymore.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)
Centers on developing hardware and software project planning and engineering design skills. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, working with others in a team arrangement, development of specifications and effective utilization of available resources. Lecture one hour per week, laboratory three hours per week.

Are one or more field trips required with this course?
No

Fee Course?
No

Is this course designated as Service Learning?
No

Does this course require safety training?
No

Does this course require personal protective equipment (PPE)?
No

Does this course have prerequisites?
Yes

Prerequisite:
CPE 166, CPE 187, EEE 108

Prerequisites Enforced at Registration?
Yes

Does this course have corequisites?
Yes

Corequisite:
CPE 142

Corequisites Enforced at Registration?
Yes

Graded:
Letter

Approval required for enrollment?
No Approval Required

Course Component(s) and Classification(s):
Discussion
Laboratory

Discussion Classification
CS#04 - Lecture /Recitation (K-factor=1 WTU per unit)
Discussion Units
1

Laboratory Classification
CS#16 - Science Laboratory (K-factor=2 WTU per unit)
Laboratory Units
1

Is this a paired course?
No

Is this course crosslisted?
Yes

Do they meet together and fulfill the same requirement?
Yes

Please identify the crosslisted course:
EEE 193 A

Can this course be repeated for credit?
No

Can the course be taken for credit more than once during the same term?
No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: 'Students will be able to: 1), 2), etc.'
CO1. Identify and evaluate a societal problem that needs an engineering solution.
CO2. Use basic project management methods and software tools such as Microsoft project for planning
and management.
CO3. Design a working laboratory prototype of a system/device/process that addresses a societal problem under realistic constraints
such as cost and safety requirements.
CO4. Communicate effectively in written and oral forms
CO5. Design solutions effectively as a team

Attach a list of the required/recommended course readings and activities:
Senior_Design_Syllabus_F20_new_prereq.pdf

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.
Student presentations (CO4, CO5)
Student reports (CO1, CO2, CO5)
Student demonstrations (CO3, CO5)

Is this course required in a degree program (major, minor, graduate degree, certificate?)
No

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?
No

Will there be any departments affected by this proposed course?
No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.
I/we agree

University Learning Goals

Undergraduate Learning Goals:
Competence in the disciplines
Knowledge of human cultures and the physical and natural world
Integrative learning
Personal and social responsibility
Intellectual and practical skills

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?
No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?
No

Reviewer Comments:
Mahyar Zarghami (mahyar.zarghami) (Mon, 21 Sep 2020 17:25:56 GMT): Rollback: Please modify per our discussions.

Key: 867