

# CSC 191: SENIOR PROJECT - PART II

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## In Workflow

1. CSC Committee Chair (shaverdian@csus.edu;%20jouyang@csus.edu)
2. CSC Chair (faroughi@csus.edu)
3. ECS College Committee Chair (figgess@csus.edu)
4. ECS Dean (kevan@csus.edu)
5. Academic Services (torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (torsetj@csus.edu)
10. Registrar's Office (w lindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Thu, 01 Oct 2020 23:51:11 GMT  
Anna Baynes (shaverdian): Approved for CSC Committee Chair
2. Fri, 02 Oct 2020 00:11:17 GMT  
Nikrouz Faroughi (faroughi): Approved for CSC Chair
3. Mon, 12 Oct 2020 21:53:47 GMT  
Gareth Figgess (figgess): Rollback to CSC Committee Chair for ECS College Committee Chair
4. Mon, 12 Oct 2020 22:37:25 GMT  
Anna Baynes (shaverdian): Approved for CSC Committee Chair
5. Mon, 12 Oct 2020 23:27:12 GMT  
Nikrouz Faroughi (faroughi): Rollback to CSC Committee Chair for CSC Chair
6. Tue, 13 Oct 2020 05:00:43 GMT  
Anna Baynes (shaverdian): Approved for CSC Committee Chair
7. Tue, 13 Oct 2020 15:32:20 GMT  
Nikrouz Faroughi (faroughi): Approved for CSC Chair
8. Fri, 23 Oct 2020 18:15:52 GMT  
Gareth Figgess (figgess): Approved for ECS College Committee Chair
9. Fri, 23 Oct 2020 18:29:24 GMT  
Kevan Shafizadeh (kevan): Approved for ECS Dean

Date Submitted: Thu, 01 Oct 2020 21:51:09 GMT

## Viewing: CSC 191 : Senior Project - Part II

Last edit: Fri, 23 Oct 2020 18:29:18 GMT

Changes proposed by: Jingwei Yang (223000115)

### Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Jingwei Yang	yang@csus.edu	916-278-7328

### Catalog Title:

Senior Project - Part II

### Class Schedule Title:

Senior Project - Part II

### Academic Group: (College)

ECS - Engineering & Computer Science

### Academic Organization: (Department)

Computer Science

### Will this course be offered through the College of Continuing Education (CCE)?

No

**Catalog Year Effective:**

Spring 2021 (2021/2022 Catalog)

**Subject Area: (prefix)**

CSC - Computer Science

**Catalog Number: (course number)**

191

**Course ID: (For administrative use only.)**

112266

**Units:**

2

**In what term(s) will this course typically be offered?**

Fall, Spring

**Does this course require a room for its final exam?**

Yes, final exam requires a room

**Does this course replace an existing experimental course?**

No

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

1. The prerequisite change is to avoid students worried about failing their current course from occupying enrollment. Our current course waitlists are filled.
2. The Computer Science department reviewed our courses based on current teaching practice and professional organization recommendations. This update is required for Computer Science program external accreditation.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

Continuation of the team project begun in CSC 190. Teams apply software engineering principles to the design, implementation, testing, and deployment of their software product. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Senior project is completed with the successful delivery, installation and demonstration of the software along with all approved documentation. Lecture one hour, laboratory three hours.

**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:**

CSC 190, not currently enrolled in CSC191.

**Prerequisites Enforced at Registration?**

Yes

**Does this course have corequisites?**

No

**Graded:**

Letter

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**Laboratory  
Seminar**Laboratory Classification**

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

**Laboratory Units**

1

**Seminar Classification**

CS#05 - Seminar (K-factor=1 WTU per unit)

**Seminar Units**

1

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**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.'**

1. Apply an agile process, for example, SCRUM.
2. Manage a project task board proficiently.
3. Use a version control system proficiently, for example, Git.
4. Demonstrate a shippable product with their client.
5. Manage requirements changes.
6. Evaluate the development process and propose improvements.
7. Evaluate requirements and design and propose improvements.
8. Use tools and techniques for functional testing, automated UI testing, performance testing.
9. Explain the benefits of continuous integration and continuous deployment.
10. Set up a software product for clients.
11. Create various documentation, including user manual, maintenance manual, and system test report.
12. Operate with team members effectively, by sharing the workload and responsibilities.
13. Manage project status and progress throughout the development of the software product.
14. Demonstrate effective communication skills to present technical contents, both oral and written.
15. Demonstrate good professionalism.
16. Explain software reliability.
17. Explain software evolution.

**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.**

ELOs 1-17 will be assessed with homework assignments, performances, and presentations.

**Is this course required in a degree program (major, minor, graduate degree, certificate?)**

Yes

**Has a corresponding Program Change been submitted to Workflow?**

No

**Identify the program(s) in which this course is required:**

**Programs:**

BS in Computer Science

**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  
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

**Please attach any additional files not requested above:**

CSC191\_Fall2020\_submitted.docx

**Reviewer Comments:**

**Gareth Figgess (figgess) (Mon, 12 Oct 2020 21:53:47 GMT):** Rollback: As requested

**Nikrouz Faroughi (faroughi) (Mon, 12 Oct 2020 23:27:12 GMT):** Rollback: update

Key: 1063