# SP20: CS-249 Sec 01 - Distrib Computing

Jump to Today ✎ Edit

**San José State University**

# Science/Computer Science

# SE/CS 249, Distributed Systems, Section 1, Spring 2020

# Course and Contact Information

| | |
|---|---|
| Instructor: | Ben Reed |
| Office Location: | MH 213 |
| Telephone: | (408) 924-5174 |
| Email: | ben.reed@sjsu.edu |
| Office Hours: | 1-2PM, 5:45-6:45PM Monday & Wednesday<br>3-5PM Tuesday<br>10-12 Thursday<br>TBD in Chicanx/Latinx Student Success Center Diaz Compean Student Union 1340 (across from Jamba Juice) |
| Class Days/Time: | Monday & Wednesday/ 4:30-5:45 |
| Classroom: | MH 225 |
| Prerequisites: | CS 149 |

# Course Description

Current issues in operating systems, including multiprocessor systems and distributed computing, networks, security and performance. Case studies of current operating systems.

## Course Learning Outcomes (CLO)

Upon successful completion of this course, students will:

1. Understand the terminology and common ideas of distributed computing.

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The University Policy S16-9 **(http://www.sjsu.edu/senate/docs/S16-9.pdf)** , Course Syllabi (http://www.sjsu.edu/senate/docs/S16-9.pdf) requires the following language to be included in the syllabus:

"Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities, including but not limited to internships, labs, and clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus."

## Final Examination or Evaluation

This course will have a cumulative final exam given during exam week.

There will be two in-class exams given in the semester (the last being the final exam :) ).

# Grading Information

## Determination of Grades

Grades will be calculated by averaging the percentages of the average of project grades, the individual project grades, the one mid-semester exams, and the final. Thus, the grade distribution is 25% individual projects, 25% exam 1, 25% final exam, 25% presentation.

| **Percentage** | **Grade** |
|---|---|
| 97 and above | A+ |
| 92-96 | A |
| 90-91 | A- |
| 88-89 | B+ |
| 82-87 | B |
| 80-81 | B- |
| 78-79 | C+ |
| 72-77 | C |
| 70-71 | C- |

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|---|---|
| 68-69 | D+ |
| 62-67 | D |
| 60-61 | D- |
| 59 and below | F |

## Classroom Protocol

This is your class. Please ask questions. Please come prepared. Do not engage in activity that may distract other students.

I do not take attendance except for the first two classes. Students not attending either of the first two classes will be dropped to make room for students on the waiting list. Attempting to get marked as present (by have someone else attend in your place or using technological deceptions) will be considered academic dishonesty and at a minimum will result in you getting dropped from the course.

## University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' Syllabus Information web page **(http://www.sjsu.edu/gup/syllabusinfo/)** at http://www.sjsu.edu/gup/syllabusinfo/" Make sure to review these policies and resources.

## CS 249, Distributed Systems, Section 1, Fall 2019

## Course Schedule

| Week | Date | Topics, Readings, Assignments, Deadlines |
|---|---|---|
| 1 | 1/27/2020 | intro to distributed systems.<br>intro to ZooKeeper: **https://www.usenix.org/legacy/events/atc10/tech/full_papers/Hunt.pdf (https://www.usenix.org/legacy/events/atc10/tech/full_papers/Hunt.pdf)** |
| 1 | 1/29/2020 | (proj assignment) ZooKeeper: |

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|---|---|---|
| | | https://www.usenix.org/legacy/events/atc10/tech/full_papers/Hunt.pdf<br>(__ _____ __ __ _____ _ _____ __ |
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| 9 | 3/23/2020 | (proj) chain replication: **https://www.cs.cornell.edu/home/rvr/papers/OSDI04.pdf** |
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| | | **(https://static.googleusercontent.com/media/research.google.com/en//archive/mapreduce-osdi04.pdf)** |
| 16 | 5/11/2020 | review |
| Final Exam | Tuesday, May 19 | 2:45-5pm |

# Course Summary:

| Date | Details |
|---|---|