

Dept Update  
**Summer 2020**

*Go for Civil Engineering,  
because Civil Engineering  
is the branch of  
engineering which  
teaches you the most  
about managing people.  
Managing people is a skill  
which is very, very useful  
and applies almost  
regardless of what you do.*

-Sir John Harvey Jones



# Civil Engineering

Davidson College of Engineering  
San José State University

Here are your CE Summer Updates as of July 2020.

## Faculty Updates

We are sorry to inform you that Dr. William Greenwood has left the department. We are very sad to see him go and wish him the best of luck in his future endeavors. The department has asked the university for permission to replace him in the upcoming year.

Dr. Botha will be returning in Fall 2020 on a part time basis after his retirement last December. He will be returning to teach several sections of CE 121.

Dr. McMullin will be on sabbatical in Fall 2020. His advisees will be covered by Dr. Al-Manaseer. He will also be the Graduate Coordinator for AY 20/21 and AY 21/22. Though he will not be teaching in the fall, he will be continuing his Graduate Coordinator duties while on Sabbatical.

Dr. Sullivan-Green was promoted to the rank of Professor (also referred to as Full Professor) in June after applying for promotion last September. She was also reelected to Department Chair this spring. Her term will end in August 2024.

## Summer Office Hours

Dr. Green's Summer Walk-In Virtual Office Hours will remain on Tuesday mornings from 10:30-11:30. See below for the Zoom link and phone information. If you need another time, please email her to find an available time.

Zoom Link:

<https://sjsu.zoom.us/j/91610542945?pwd=UEFRVWdmZEw2ZUl4L0pkbFFaVXBaQT09>  
Dial in: 1-669-900-6833; Meeting ID: 916 1054 2945



Remember that other faculty are off campus this summer and may be slow to respond to messages. Dr. Pyeon will remain the Graduate Coordinator through the summer and will transition the work to Dr. McMullin over that time. They are both reachable by email.

The CE Main Office is available every day via email and/or phone. For fastest assistance, use email.

## Who should I ask?



*Don't know who to ask for help? See below!*

### Change of major?

Dr. Vukazich

### Priority Status?

Dr. Vukazich

### Summer hold removal?

Dr. Green (follow Fall 2020 procedure)

### Document signing?

Dr. Green, copy Debbie Cortez

### Graduate Forms?

Dr. Pyeon, copy Dr. McMullin

### Course Selection?

Your advisor.

### Undergrad Advisors:

A-O: Al-Manaseer

P-Z: Vukazich

### Grad Advisors:

Construction: Pyeon

Environmental: Ndon

Geotechnical: Green

### Structural:

Al-Manaseer

McMullin

Vukazich

Transportation: Botha

### Water:

Hoang

Jeyachandran

## Fall 2020 Updates

### Online Instruction

Course modes for all CE classes have been changed to online formats. All classes should indicate an online mode, with most classes being completely online. Classes whose time says TBD are asynchronous and will not have a regularly scheduled meeting time. Currently, the only class that may have an in-person component is CE 120. Other classes may have optional in-person activities for labs, but alternative assignments will be available for those who are unable or do not wish to attend. If you are concerned about an in-person component, please contact the instructor to discuss concerns.

### Undergraduate Course Restrictions

**There will be no additional seats opened in elective courses.** Please realize that even though we are not restricted by classroom size, there are additional considerations for the size of the class, including the instructional experience for students. If you are on the waitlist for an elective, you will only be admitted if someone drops the course. Please make alternative plans for enrolling in other electives, though you may still remain on the waitlist for your preferred course. If there is a justifiable reason you are unable to enroll in electives with open seats (you have taken the course, for example), then discuss the situation with Dr. Green. Remember we do not accommodate work schedules, course preferences, or scheduling conflicts that are able to be rectified by changing another class section.

Please recall that you cannot register for classes that are Department Consent (DC). CE 08-05, CE 08-06, CE 20-05, CE 112-05, and CE 120-05 are DC sections. If you receive an error message that says you need department consent, try choosing another available section. Some have expressed interest in CE 120-05, but we do not currently have enough interest to open the section currently. We will admit 2 students in each of the other labs when the semester begins, so most of you who are waiting should be accommodated.

### Exciting Course Offerings

Fall 2020 has several exciting offerings that students may be unfamiliar with their content.

There is a new undergraduate elective for the fall, **CE 104: Introduction to GIS in Civil Engineering**. At the end of this message is a flyer describing the course. This multidisciplinary course is applicable to virtually all CE disciplines and is a wonderful addition to the CE program. It is open to both undergraduate (non-design elective) and graduate students. If you have further questions about the course, contact Dr. Jeyachandran.

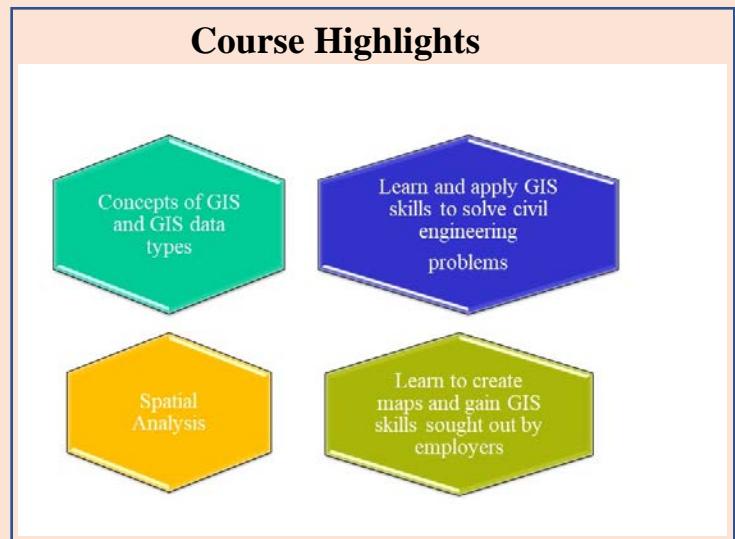
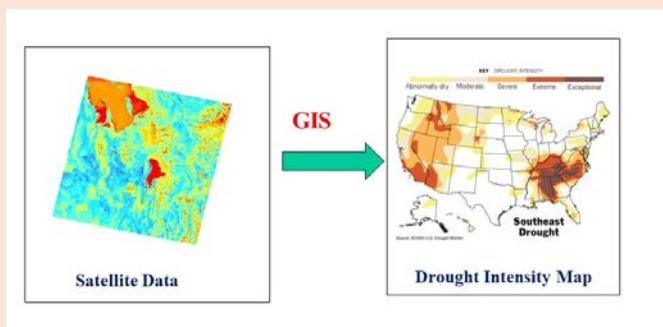
Consider taking these Fall 2020 graduate courses:

- **CE 248: Forensic Engineering and Failure Analysis** is an exciting non-computational course that explores Civil Engineering failures, forensic engineering, and ethical practices. The curriculum considers factors that often lead to Civil Engineering failures and the methods of practice that reduce the risk of failure. Cases related to all CE disciplines are covered and is a great course for all CE grad students.
- **CE 246: Geotechnical Earthquake Engineering** is great for all graduate students who work with soil, especially geotechnical, structural, and transportation engineers. It complements study in CE 165 and CE 265. It is also valuable for anyone planning on taking PE, SE and GE exams in states that have seismic codes.
- **CE 255: Sediment Transport** applies to students interested in Water Resources, Environmental Engineering, or Geotechnical Engineering. It focuses on how sediment (solid particles such as soil) moves in flowing water. Sediment transport is related to erosion, deposition, water treatment, and landslides.
- **CE 264: Prestressed Concrete Design** is a useful course for anyone interested in structural, geotechnical, or transportation engineering. Such members are often used in structures, retaining walls, bridges, and runways due to its high strength, ease of installation, and economy for long spans. Content is updated to current codes.

**Are you interested to learn all about GIS and acquire GIS skills sought out by employers?**

**Enroll in CE 104 – Intro to GIS in Civil Engineering**

**Offered in Fall 2020**



**Mode of instruction:** [Asynchronous online](#)

**Instructor:** Dr. Indumathi Jeyachandran, [LEED AP \(BD+C\)](#)

[Certified Mapping Scientist – Remote Sensing](#)

**Assistant Professor**

Department of Civil and Environmental Engineering

San Jose State University

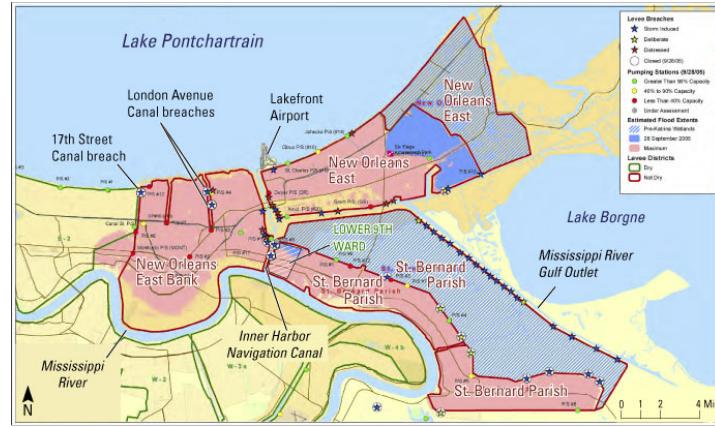
San Jose, CA - 95192

Phone: (408)924-3824

Email Dr.Jeyachandran at [indumathi.jeyachandran@sjtu.edu](mailto:indumathi.jeyachandran@sjtu.edu) if you have any questions or would like to know more about the course.

**Department of Civil and Environmental Engineering  
San Jose State University, CA - 95192**

# CE 248: Forensic Engineering & Failure Analysis



Failures are more than just examples of “what not to do”. Failures teach engineers about the limitations of constructed works, the danger in improper design, and the of improper assumptions. Lessons learned from failures are often more potent than those learned from success. This course will evaluate a variety of failures, including such notorious disasters as the Hyatt Regency Walkway Collapse, the New Orleans Levee Failures, and the Tacoma Narrows Bridge. We will go beyond the sensationalism of the failures and study the mechanisms behind the failures, the methods of investigation and the changes to the field of civil engineering that resulted from the failures.