COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

COLLEGE WELCOME & RESOURCE INTRODUCTION

Carlos Santana,
Assistant Dean
Advising & Registration Summer 2021
AGENDA

- Brief College Overview
- ECS Student Success Center
- Co-Curricular Opportunities
- Student Support Programs
- Success Tips
## ECS – Degrees Offered

- **14 degrees total**

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS &amp; MS</td>
<td>Civil, Computer, Electrical &amp; Mechanical Engineering and Computer Science</td>
</tr>
<tr>
<td>Integrated BS-MS</td>
<td>Computer Engineering (4 years)</td>
</tr>
<tr>
<td>MS (Online only)</td>
<td>Environmental Engineering &amp; Software Engineering</td>
</tr>
<tr>
<td>BS</td>
<td>General Engineering with Concentration in Biomedical Device Engineering in the immediate plan</td>
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</tbody>
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FALL 2019
Enrollment Data by Department

- **Civil & Environmental Engineering**
  - Includes M.S. in Environmental Engineering (on-line)
  - 863 students

- **Computer Engineering**
  - 957 students

- **Computer Science**
  - Includes M.S. in Computer Science & M.S. in Software Engineering (state support)
  - 414 students

- **Electrical Engineering**

- **General Engineering**

- **Mechanical Engineering**
  - 447 students

**Total Enrollment:** 4547 students
Undergrad Profile

~3800 undergrads
~750 Master’s students

Undergrad Enrollment
- Civil Eng.: 23%
- Comp. Eng.: 18%
- Comp. Sci.: 9%
- Elec. Eng.: 10%
- Mech. Eng.: 39%
- Eng. Gen.: 1%

Gender
- 84.8% Male
- 15.2% Female

First Generation
- 31%

Diversity
- Asian: 37%
- Black/African American: 17%
- Caucasian/White: 26%
- Hispanic/Latino: 16%
- Multi-Racial: 1%
- Unknown/Other: 3%
- Caucasian/White: 3%
ECS Distinctions

2019 US News and World Report Ranking

➢ Undergraduate programs ranked 38th in the US among non-PhD granting universities

➢ Online Graduate Programs ranked 1st among non-PhD granting universities

➢ Nationally accredited programs (ABET)

➢ Interdisciplinary design projects/research

➢ National winners of several student design project competitions every year
Learning Environment – Typical Classrooms
Learning Environment – Lab Spaces

Some of the Lab Spaces in the College of Engineering & Computer Science

- Structures Lab
- Environmental Lab
- Wind Tunnel Lab
- Hydraulics Lab
- Geotechnical Lab
- Very Large Scale Integration Lab
- Computer Labs in all departments
- Machine Shop
Learning Environment – Machine Shop
College of Engineering & Computer Science

Student Success Team Leadership

Dr. Susan Barua
Dean

Dr. Sang June Oh
Associate Dean

Carlos Santana
Assistant Dean, Student Affairs
Reasons to connect:
• Scholarship Information
• General Questions/ Guidance
• Opportunities for Involvement
• Conflict Resolution
• ECS Themed-Floor in Housing

• Referral to other campus services
• Oversee Operations of the ECS Student Success Center

Contact: csantana@fullerton.edu
ECS STUDENT SUCCESS CENTER

Resources:

- Academic & Graduation Advising
  - General Education and Major related
- Workshops:
  - Academic Success, Probation, Grad Check
- Tutoring
- Resume, Cover Letter, & Interview Skills
- Study Space
- PC Computers for Student Use

Location: CS-201
ECS Student Success Team

**Freshman/ Sophomore Academic Advising**

- **SERGIO GUERRA**
  Director & Advisor
  Center for Academic Support in Engineering & Computer Science (CASECS)

- **ROBERTO MONTES**
  College Advisor

- **ELAINA SIDNEY**
  Retention Specialist

**Career Advising**

- **VANESSA RUBINFELD**
  ECS Career Specialist
  CSUF Career Center

**Junior/ Senior Advising**

- **ELIZABETH GOMEZ**
  Graduation Specialist

**International Student Support**

- **DR. KAREN LAU**
  International Student Advisor
Co-curricular Opportunities

➢ Scholarships

➢ Student Organizations
SCHOLARSHIPS

CSUF SCHOLARSHIPS

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE SCHOLARSHIPS

- ECS Scholarship amounts vary from $500 - $3,000 based on availability
- 11 named scholarships
- In 2019-2020 Academic Year, $50,000+ awarded
- Scholarship recipients can engage in various professional and networking opportunities by special invite
- Deadline: Late March/ Early April each year
## STUDENT ORGANIZATIONS

### CIVIL ENGINEERING
- Associated General Contractors of America (AGC)
- American Society of Civil Engineers (ASCE)
- California Geotechnical Engineering Association (CalGeo)
- Design Build Institute of America (DBIA)
- Earthquake Engineering Research Institute (EERI)
- Geo Institute Graduate Student Organization (GIGSO)
- Institute of Transportation Engineers (ITE)

### COMPUTER ENGINEERING
- Partnership for Applied Computer Engineering (PACE)
- Network Engineering Club (NEC)

### COMPUTER SCIENCE
- Association for Computing Machinery (ACM)
- Association for Computing Machinery – Women in Computing (ACM-W)
- Offensive Security Society (OSS)
- Video Game Design Club (VGDC)
- Data Science and Machine Learning (AI)

### ELECTRICAL ENGINEERING
- Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Navigation (ION)

### MECHANICAL ENGINEERING
- American Society of Mechanical Engineers (ASME)
- American Institute for Aeronautics and Astronautics (AIAA)
- Student Aerospace Society (SAS)
- Society of Automotive Engineers (SAE)
- Society of Manufacturing Engineers (SME)
- Society of Unmanned Aerial Vehicle Engineers (SUAVE)
- Titan Rover
- Titan Rocket Engineering Society (T.R.E.S.)

### IDENTITY/ HONOR SOCIETY/ FRATERNITY
- Latinos in Science and Engineering (MAES)
- National Society of Black Engineers (NSBE)
- Society of Hispanic Professional Engineers (SHPE)
- Society of Women Engineers (SWE)
- Tau Beta Pi California Chi Chapter (TBP)
- Chi Epsilon (XE)
- IEEE- Eta Kappa Nu (Iota Omega Chapter) (HKN)
- Theta Tao (Co-Ed Engineering Fraternity)
Student Project Samples

INTERESTED IN LEARNING MORE ABOUT THESE PROJECTS:

FORMULA SAE

➢ http://www ecs.fullerton.edu/~sae/

TITAN ROVER

➢ https://titanrover.com/

Titan Rover Versions: https://titanrover.com/sar-video
STUDENT SUPPORT PROGRAMS

- Center for Academic Support in Engineering & Computer Science (CASECS) Program (Freshmen)
- Fullerton Finish Scholars Program (Freshmen)
- ASSURE-US Program (Freshmen)
- WiCSE Program (Women Freshmen & Transfers)
- LSAMP Program (Freshmen & Transfers)
- McNair Scholars Program (Transfer Students)
- RAISE Program (Transfer Students)
Center for Academic Support in Engineering & Computer Science (CASECS) Program

How CASECS Supports Students:

• Provides Academic Advising
• Supports students who are ECS majors during their first two years of college.
• Priority registration for the first two years upon successful completion of requirements
• Builds a support community with similar career goals
• Provides opportunities for mentoring relationships between faculty and students
• Increases awareness of research experience and opportunities with faculty
• Collaborates with Career Center for specific opportunities for professional networking
• Tutoring services for all ECS Majors
• Exposure to Clubs and Organizations
• Eligibility to apply for the CASECS Scholarship

Support can lead to success

Eligibility:
If you are an incoming freshman and the first one in your family to go to college or graduate from a four-year university, reach out to the CASECS Director Sergio Guerra to confirm eligibility.

Contact: sguerra@fullerton.edu
Fullerton Finish Scholars Program

How Fullerton Finish Supports Students:

• Provides Academic Advising to support 4-Year graduation
• Priority registration for active program participants
• Graduation Celebration

Eligibility:

• You must be able to take MATH 150A or higher during your first semester.

Questions? Contact:
http://www.fullerton.edu/aac/fullerton_finish/

Joshua Loudon
Fullerton Finish Coordinator

Contact: jloudon@fullerton.edu
ASSURE-US Program

PURPOSE:
• ASSURE-US is an NSF funded project aimed to enhance Student Learning Experiences in Engineering and Computer Sciences at lower-division years.

ELIGIBILITY
• Must be a Freshman or Sophomore enrolled in Engineering or Computer Science majors
• Underrepresented students, such as Hispanic and female, are highly encouraged to apply

SERVICES:
• Receive Financial and Academic Support
• Engaging Real World Experiences
• Networking and Internship opportunities
• Participation Incentives: Scholarships, Textbooks, and Gift Cards
• Peer Mentorship opportunities
• Advancing Student Success
• Collaborative Learning
WANT TO JOIN ASSURE-US?

REGISTER: CLICK HERE

QUESTIONS?

VISIT: https://www.fullerton.edu/ecs/assure-us-us.php

CONTACT: Assure-us@fullerton.edu

Dr. Sudarshan Kurwadkar
Civil Engineering Professor
ASSURE-US Principal Investigator

Dr. Jidong Huang
Electrical Engineering Professor
ASSURE-US Co-Principal Investigator
Women in Computer Science & Engineering Program (WiCSE)
WiCSE Program

Purpose:
• Build a community of students to support women in computer science and engineering
• Network with women in industry, ECS faculty, upperclassmen
• Get connected: meet companies, career preparation- workshops/presentations

Services:
• Tutor available for WiCSE participants
• Program Advisor
• Priority Registration for active participants
• Company Site visits
• Events: mixers, networking events
Want To Get Involved in WiCSE?

Questions? Contact:

Beth Harnick-Shapiro
WiCSE Advisor & Computer Science Instructor
beth.harnick.shapiro@Fullerton.edu
LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION PROGRAM

Be part of LSAMP.

A participant can be a part of LSAMP and can also be funded by another undergraduate research program at CSUF. We hope that participants can eventually move to become Research Scholars. Participants can receive scholarships up to $3,500.

During the academic year, the research commitment is a minimum of 6-8 hours per week with additional expectations and requirements that vary each semester. Research Scholars can receive scholarships up to $5,000 per year.

CALIFORNIA STATE UNIVERSITY FULLERTON
COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
Eligibility & Application

• Must be a US citizen or Permanent Resident.
• Must be working on FIRST baccalaureate degree.
• Must be enrolled at California State University, Fullerton, or be transferring to CSUF from a community college.
• Must have a DECLARED SCIENCE Major –All ECS majors eligible!
• Must be an individual who has faced or faces social, educational, or economic barriers to careers in STEM
WANT TO JOIN L-SAMP?

APPLY: CLICK HERE

QUESTIONS?

VISIT: http://www.fullerton.edu/lsamp/

CONTACT: lsamp@fullerton.edu

Dr. Zair Ibragimov
LSAMP Director
MCNAIR SCHOLARS PROGRAM

FACULTY MENTORSHIP

RESEARCH

ADVISING

GRAD SCHOOL PREP

WORKSHOPS

MCNAIR Scholars Program

Eligibility:
Desire to obtain a Ph.D
At least 2 years left until graduation
3.0 cumulative GPA / 3.2 major GPA
Low-income & First-gen college student OR
Racially underrepresented

For more information: pliterte@fullerton.edu

https://forms.gle/16hKVNIoUUdMUZMG9
Deadline: May 29
Eligibility

• Goal of attending graduate school, particularly a Ph.D. program
• Minimum 3.0 cumulative GPA / 3.2 major GPA
• Junior (for McNair Scholars)
• Low-income background and first generation college student

AND/OR

• From a racial or ethnic group underrepresented in graduate education
WANT TO JOIN McNair Program?

APPLY: CLICK HERE

QUESTIONS?
VISIT: http://www.fullerton.edu/mcnair/
CONTACT: plisterte@fullerton.edu

Dr. Patricia Literte
McNair Program Director
Project RAISE focuses on providing services and resources to STEM transfer students to increase academic and career success.

Transfer Resource Center (TRC)
McCarthy Hall 525  
Monday-Thursday 9 am-7 pm, Friday 9 am-12 pm

- Study Area
- Charging Stations
- White Boards
- Break area w/ Microwave
- Access to Peer Advisors
- Stress Free Station
- Academic Success and Career Workshops

Summer Internship Program (SIP)
- Assistance with developing resume, cover letter, and interview skills
- Connections to employers for internship opportunities
- Build a professional network
- Access to NSM and ECS Career Specialists

CONNECT WITH US!
raise@fullerton.edu
657-278-4876
www.fullerton.edu/projectraise
@csufprojectraise @projectraise_
For questions and to verify eligibility for Project RAISE Programs, please contact:

raise@fullerton.edu

or

657-278-4876
SUCCESS TIPS
SUCCESS TIPS

BEFORE you start in the Fall 2020 semester:

❑ As soon as you get your AP scores, make sure you log in to your College Board account, and request to send your AP Score Report to CSUF

❑ Calculus Placement: Unless you have college credit for Calculus (ex. Score of 4 or better in AP Calc AB), you will need to take ALEKS (an online Math learning & assessment program) during the summer. Take it seriously and complete it early! Math is a very important foundation – if possible start with Calculus (Math 150A)

❑ Questions about ALEKS: ALEKSECS@Fullerton.edu
https://www.fullerton.edu/math/resources/aleks.php

❑ Review Credit by Exam Options available here:
https://www.fullerton.edu/aac/docs/Credit_By_EXAM_AP_CLEP_IB.pdf

❑ **Transfer Students:** Ensure final community college transcripts are received as soon as possible to begin articulation process. Articulation can take time.
SUCCESS TIPS

❑ Connect with campus resources
  ❑ Tutoring
  ❑ Professor Walk-In/ Office Hours
  ❑ Academic Advising Services
  ❑ CSUF/ College of ECS Support Programs

❑ Engage with your classes!
  ❑ Meet Friends/ Future Colleagues
  ❑ Form Study Groups
  ❑ Get to Know Your Professors/ Future Letters of Recommendation

❑ Get involved!
  ❑ Join Student Clubs
  ❑ Faculty Research
  ❑ Student Projects
  ❑ Time Management is Key!

❑ Create an academic plan that meets your goals by meeting with your advisor!
  ❑ ECS requires academic advising at least once per academic year
  ❑ 15 units per semester → 4 year graduation
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Time Investments

AVAILABLE HOURS IN WEEK: 7 days x 24 hours = 168 Hours

Take 4-5 Academic Classes:

- **School:** Class = 15 units & hours + Studying = ~30 hours
  - ~45 Hrs

- **Commitments:** Family = 14 hours + Work (Part-Time) = 20 hours
  - ~34 Hrs

Your Health:
- **Sleep** = 53 hours (~7.5 hrs/night) + Exercise = 5 hours + Eating = 21 hours
  - ~79 Hrs

Social Life:
- **Hangout** = 7 hours
  - ~7 Hrs

Routine:
- **Morning Preparation** = 5 hours + Commute/ Parking = ~8 hrs
  - ~13 Hrs
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Earn Your Degree in 4 Years!

HERE’S HOW
TAKE 15 UNITS PER SEMESTER.

15

All programs in the College of Engineering & Computer Science are 120 units, and can be completed in 8 semesters by taking 15 units per semester or 30 units each academic year (can include Summer term, in addition to Fall & Spring semesters).

HERE’S WHY
THERE ARE ADVANTAGES & OPTIONS.

Save money & accrue less student loan debt!
Finishing in 4 years can save you $6,894 compared to 5 years, or $13,788 for a 6-year degree!
The 2018-2019 tuition cost for your degree at CSUF is at $3,447 per semester, which means:
4 years cost = $27,578
5 years cost = $34,470
6 years cost = $41,364

Did you know?
Students enrolled in 15 units or more have been shown to perform as well or better academically than students taking 12 units per semester.

According to a study, there is a significant correlation between students registering in more credit hours and higher earned GPAs during a semester.

Start your professional career sooner to improve life-long salary earnings!
The National Association of Colleges and Employers (NACE) estimated average starting salaries in Winter 2017 were offered at $66,356 and $66,292 for computer science and engineering fields, respectively.

Earning your 4-year degree increases your life-long earnings potential to an additional $132,000, when compared to earning a 6-year degree. Wow!
CONTACT US

www.fullerton.edu/ecs

ECS Student Success Center
ecsadvising@fullerton.edu

Assistant Dean
csantana@fullerton.edu