Topics

• Brief College Overview
• ECS Student Success Center
• Co-Curricular Opportunities
• Student Support Programs
• Success Tips
Society of Women Engineers
ECS Degrees Offered

- 14 degrees total
  - \textbf{BS & MS} Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Science
  - \textit{Integrated BS-MS} Computer Engineering
  - \textbf{MS (online only)} Environmental Engineering, Software Engineering
  - \textbf{BS} General Engineering with Concentration in Biomedical Device Engineering
Fall 2021 Enrollment Data by Department

- **Civil & Environmental Engineering**: Includes M.S. in Environmental Engineering (on-line)
- **Computer Engineering**
- **Computer Science**: Includes M.S. in Computer Science & M.S. in Software Engineering (state support)
- **Electrical Engineering**
- **General Engineering**
- **Mechanical Engineering**

**Total Enrollment**: 4,405

- **Civil & Environmental Engineering**: 783
- **Computer Engineering**: 756
- **Computer Science**: 379
- **Electrical Engineering**: 331
- **General Engineering**: 2,094
- **Mechanical Engineering**: 62
Fall 2021 College Profile

- 3,630 undergraduates and 775 graduates
- 19.10% female, 80.85% male, 0.05% non-binary
- 29% first-generation

Diversity

- Asian: 3%
- Black/African American: 33%
- Caucasian/White: 41%
- Hispanic/Latino: 18%
- Multi-Racial: 2%
- Unknown/Other: 3%

Undergrad Enrollment

- Civil Eng.: 15%
- Computer Eng.: 48%
- Computer Science: 1%
- Electrical Eng.: 8%
- Mechanical Eng.: 1%
- General Eng.: 9%
ECS Distinctions

2021 US News and World Report Ranking

• Undergraduate programs ranked #33 out of 220 colleges in the US among non-PhD granting universities
• Online Graduate Programs ranked #25 out of 97 in the category of “Best Online Master’s in Engineering Programs”

• Nationally accredited programs (ABET)
• Interdisciplinary design projects/research
• National winners of several student design project competitions every year
Learning Environments - Classrooms
Learning Environments - Labs

**ECS Lab Spaces**
- Structures Lab
- Environmental Lab
- Wind Tunnel Lab
- Hydraulics Lab
- Geotechnical Lab

- Very Large-Scale Integration Lab
- Computer Labs in All departments
- Machine Shop
Learning Environments - Machine Shop
ECS Student Success Team Leadership

Dr. Susan Barua
Dean

Dr. Sang June Oh
Associate Dean

Shannen Allado
Assistant Dean for Student Affairs
Assistant Dean for Student Affairs

Shannen Allado, M.S.
E-Mail: shallado@fullerton.edu
Phone: 657-278-4407
Location: Computer Science 206

Reasons to connect:
• ECS themed floor housing for first years
• Student success
• Academic challenges and concerns
• Advising and/or counseling referrals
• Advocacy, support, and conflict resolution
• Policies & procedures
• Scholarships, grants, and financial aid
• Leadership opportunities
• Professional development opportunities
• Campus involvement
• Student clubs & organizations
• ... And more!
ECS Student Success Center

• Graduation Advising
• Academic Advising
• Workshops
  • Graduation Check
  • Academic Success
  • Career Preparation
• Tutoring
• Study space
• PC computers for students

Location: Computer Science 201
Hours: Mon-Fri @ 8am-5pm
E-Mail: ECSadvising@fullerton.edu
Co-Curricular Opportunities - Scholarships

• CSUF Scholarships
• ECS Scholarships
  • Amounts vary from $500 - $3,000 based on availability
  • 11 named scholarships
  • Scholarship recipients can engage in various professional and networking opportunities by special invite
  • Deadline: Late March / Early April each year

https://www.fullerton.edu/financialaid/general/scholarships.php
## ECS Student Clubs & 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
- Network Engineering Club (NEC)
- Partnership for Applied Computer Engineering (PACE)

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

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

### Mechanical Engineering
- American Institute for Aeronautics and Astronautics (AIAA)
- American Society of Mechanical Engineers (ASME)
- Society of Automotive Engineers (SAE)
- Society of Manufacturing Engineers (SME)
- Society of Unmanned Aerial Vehicle Engineers (SUAVE)
- Student Aerospace Society (SAS)
- 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)
- Chi Epsilon (XE)
- IEEE – Eta Kappa Nu (Iota Omega Chapter) (HKN)
- Tau Beta Pi California Chi Chapter (TBP)
- Theta Tao (Co-Ed Engineering Fraternity)

Check out [TitanLink](#) for more!
Student Project - Formula SAE
Student Project - Titan Rover
Student Support Programs

• Center for Academic Support in Engineering & Computer Science (CASECS) Program – Freshmen
• Fullerton Finish Scholars Program – Freshmen
• ASSURE-US Program – Freshmen
• Women in Computer Science & Engineering (WiCSE) Program – Women Freshmen & Transfers
• Louis Stokes Alliance for Minority Participation Program (LSAMP) Program – Freshmen & Transfers
• McNair Scholars Program – Transfers
• Project RAISE Program – Transfers
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

Eligibility:

- Incoming freshman
- First in family to attend college or graduate from a four-year university

Contact

Sergio Guerra
E-Mail: sguerra@fullerton.edu
Website: CASECS
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.

Contact
Joshua Loudon
E-Mail: jloudon@fullerton.edu
Website: Fullerton Finish
# ASSURE-US Program

## Purpose of ASSURE-US:

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

## 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

## 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

## Contact

- **E-Mail:** assure-us@fullerton.edu
- **Website:** ASSURE-US

![Image](image.jpg)
Women in Computer Science & Engineering (WiCSE) Program

**Purpose of WiCSE:**

- 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

**Contact**

Beth Harnick-Shapiro  
E-Mail: beth.harnick.shapiro@fullerton.edu  
Website: WiCSE
Louis Stokes Alliance for Minority Participation (LSAMP) Program

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

Contact

E-Mail: lsamp@fullerton.edu
Website: LSAMP
## McNair Scholars Program

### About the McNair Scholars Program:

The Ronald E. McNair Post-Baccalaureate Achievement Program prepares students from underrepresented, first-generation, and low-income students for doctoral studies. McNair Scholars participate in a range of research and scholarly activities, including completion of a "McNair thesis" underneath a CSUF faculty mentor, conference attendance and presentations, graduate school tours, on-going academic advisement, and professional development.

### 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

### Contact

**Dr. Patricia Literte**  
**E-Mail:** pliterte@fullerton.edu  
**Website:** McNair Scholars Program
Project RAISE

About Project RAISE:

Project RAISE focuses on providing services and resources to STEM transfer students to increase academic and career success.

Engagement Opportunities:

- Undergraduate Research Program (URE), an 8-week summer research experience guided by CSUF faculty
- RAISE Transfer Program (RTP), a peer advising and academic support program for students who transfer to CSUF
- Summer Internship Program (SIP), a summer internship program for RTP participants
- A research preparation program to explore research opportunities, post-transfer (coming fall 2022)

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

Contact
E-Mail: raise@fullerton.edu
Website: Project RAISE
Success Tips

BEFORE you start the semester:

- As soon as you receive your AP scores, 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 (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.

- **Transfer Students:** Ensure final community college transcripts are received as soon as possible to begin the 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
  - 30 units per year → timely graduation
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**Time Investments**

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

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

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

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

- **Social Life:**
  - Hangout = 7 hours
  - Total: ~7 Hours

- **Routine:**
  - Morning Preparation = 5 hours +
  - Commute/Parking = ~8 hours
  - Total: ~13 Hours
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30 Units Per Year

Earn your degree in 2 or 4 years!

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

Advantages:

• Save money and accrue less student loan debt
• Start your professional career sooner to improve life-long salary earnings

Did you know?

• Students enrolled in 15 units or more have 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.
Contact Us

Webpage
https://www.fullerton.edu/ecs

ECS Student Success Center
ECSadvising@fullerton.edu

Assistant Dean for Student Affairs, Shannen Allado
shallado@fullerton.edu
657-278-4407