CECS Virtual Graduate Programs Open House: Master’s Degree (MS) Programs

Summer 2021

Survey
Welcome International and US Prospective Students
College of Engineering and Computer Science

Welcome Floridian Prospective Students

CECS Virtual Graduate Programs Open House | Summer 2021
College of Engineering and Computer Science

Today’s Goals

• Learn more about UCF’s College of Engineering and Computer Science
• Connect you to the Graduate Programs and Directors in your prospective department
• Learn about the application process and about funding strategies
• Answer your questions
CECS Graduate Open House Overview

Welcome

About UCF

Program Overviews (~10min each)

Application Process

Closing & Survey

During this session, submit your privately questions via chat to:
Ms. Heather Houser
Welcome – Dr. Michael Georgiopoulos

- Appointed as Dean in 2013
- Numerous Research and Teaching Awards
- Joined UCF in 1986
- Pegasus Professor in 2010
- Earned PhD in Electrical Engineering from the University of Connecticut
- BS in Electrical, Electronics, and Communications Engineering from the National Technical University of Athens
The University of Central Florida was founded in 1963 as Florida Technological University, with the mission of supporting the growing United States space program at nearby Kennedy Space Center and Cape Canaveral Air Force Station. The motto, “Reach for the Stars,” represented the university’s promising aerospace education in engineering, electronics and other technological professions.
Graduate Degrees in CECS

- **PhD**
  - Dissertation: 72 credit hours

- **MS**
  - Non-Thesis: 30 credit hours
  - Thesis: 24 hours + 6 hours of research

- **Certificate**
  - Non-Thesis: 9-15 credit hours

Credit hour requirements for each degree.
CECS Graduate Programs

Graduate Certificate (GC) Programs (15)
- Computer Forensics
- Construction Engineering
- Data Analytics
- **FinTech**
- Guidance Controls and Dynamics
- **Healthcare Systems Engineering**
- Mixed Reality Engineering
- **Project Engineering**
- Quality Assurance
- Structural Engineering
- **Systems Engineering**
- **Technologies for Smart Communities**
- Transportation Engineering

Master’s of Science (MS) Degree Programs (18)
- Aerospace Engineering
- Biomedical Engineering
- **Civil Engineering**
- Computer Engineering
- **Computer Vision**
- Computer Science
- **Cybersecurity and Privacy**
- Data Analytics
- **Digital Forensics**
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- **FinTech**
- Industrial Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Modeling and Simulation
- **Systems Engineering**
- Travel Technology and Analytics

Specialty Graduate Programs
- MS in Engineering Management, Professional Engineering Management (PEM) Track (a cohort-based program)
- MS in Data Analytics
- Graduate Certificate in Data Analytics
- **MS in Healthcare Systems Engineering Track**

Doctoral (PhD) Degree Programs (11)
- Aerospace Engineering
- Big Data Analytics*
- **Biomedical Engineering**
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Modeling and Simulation*

New for Fall 2021 | Expected 2022 | Also offered as fully online | *Interdisciplinary program
Program Overviews
Brief Program Overviews (~10 min each)

• Computer Science – Dr. Wang (Liqiang.Wang@ucf.edu)

• Civil, Environmental, and Construction Engineering – Dr. Randall (Andrew.Randall@ucf.edu)

• Electrical and Computer Engineering – Dr. Sundaram (Kalpathy.Sundaram@ucf.edu)

• Industrial Engineering and Management Systems – Dr. Mollaghasemi (Mansooreh.Mollaghasemi@ucf.edu)

• Materials Science and Engineering – Dr. Fang (Jiyu.Fang@ucf.edu)

• Mechanical and Aerospace Engineering – Dr. Raghavan (Jihua.Gou@ucf.edu)

Some Topics:
- Benefits
- Eligibility + Application
- Department Activities
- Course Mode
- Key Contacts + Next Steps

CECS Virtual Grad Day
Your ONE-STOP SHOP for graduate programs
College of Graduate Studies: Application Process and Funding
Application and Funding – Mr. Leben Goldman

- Associate Director of Recruiting in the College of Graduate Studies
- Admissions and Recruiting
- Key lead on all Graduate Recruitment for UCF, recruitment event planning for graduate fairs, travel to represent UCF and its graduate programs at national conferences, design of relevant recruitment materials for UCF graduate programs
- Joined UCF in 2014
- Degrees from UCF and FSU
Next Steps

CECS Virtual Graduate Programs Open House Day | Fall 2020
Benefits of a Master’s Degree

- Advance skillset
- Access to leadership roles
- Improve communication skills
- Enhance network
- Personal achievement
- And more …
Benefits of a CECS Graduate Degree

Consider Career Earnings Difference

Average Starting Annual Salary (Thousands)


Note: Data not reported for academic programs that have yet to produce graduates or with a low number of respondents.

BS  MS  PhD

Aerospace
Civil
Comp Engr
Comp Sci
Electrical
Environment
Industrial
Materials Sci.
Mechanical
Modeling and Sim.

PhD AE First Graduates: Expected Fall 2019 and Spring 2020
Too few responses
PhD AE First Graduates Expected Spring 2022

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“...[T]here is strong evidence that advanced education levels continue to be associated with higher salaries. A study by the Georgetown Center on Education and the Workforce showed that across the fields examined, individuals with a graduate degree earned an average of 38.3% more than those with a bachelor’s degree in the same field. The expected lifetime earnings for someone with a bachelor’s degree, $2.3 million; with a master’s degree, $2.7 million; and with a doctoral degree (excluding professional degrees), $3.3 million. Other data indicate that the overall unemployment rate for individuals who hold graduate degrees is far lower than for those who hold just an undergraduate degree.”

- Pathways Through Graduate School and Into Careers, Council of Graduate Schools (CGS) and Educational Testing Service (ETS), pg. 3.
College of Engineering and Computer Science

CECS Graduate Programs Open House

- **MS Programs:** Computer Vision, Cybersecurity, Data Analytics, Digital Forensics
- **PhD Programs**
- **Funding**

http://cecs.ucf.edu/gradday
Closing

• Getting admitted to and then beginning graduate school takes effort
• Identify your motivation(s)
• Develop a personal roadmap and execute your plan
• You can do this!!!

Survey
Thanks for Your Attention

Special Thanks:
CECS:
Bel Huston, Kimberly Lewis, Paul Sepulveda, Mansooreh Mollaghasemi, Andrew Randall, Kalpathy Sundaram, Jihua “Jan” Gou, Liqiang Wang, Jiyu Fang, and Michael Georgiopoulos

CGS:
Leben Goldman, Jennifer Parham, and Elizabeth Klonoff

Future CECS Grad Days:
- Fall: first week of October,
- Spring: last week of February
- Summer: First week of June