CECS Virtual Graduate Programs Open House:
New and Specialty Programs
Summer 2021

Survey
Welcome International and US Prospective Students
Today’s Goals

• Learn more about UCF’s College of Engineering and Computer Science
• Connect you to Coordinators of the Graduate Programs that interest you
• Learn about the application process and about funding strategies
• Answer your questions
Welcome and About UCF

Program Overviews (10-15 min each)

Application Process

Closing & Survey

During this session, submit your privately questions via chat to:
Ms. Heather Houser
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.
## Fast Facts

**College of Engineering and Computer Science**

### First Destination Survey Results

<table>
<thead>
<tr>
<th>Graduate</th>
<th>Summer 2019 - Fall 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>1,234</td>
</tr>
<tr>
<td>Full-time / Part-time Employment</td>
<td>1,234</td>
</tr>
<tr>
<td>Attending Graduate or Professional School</td>
<td>1,234</td>
</tr>
<tr>
<td>Other</td>
<td>1,234</td>
</tr>
</tbody>
</table>

### Graduates

- 61% Accepted offers of employment
- 30% Seeking a position
- 5% Offered drop or more positions
- 14% Seen a search 500+
- 6% 4% With search or plan

### Local Impact

- 95% For graduates who entered the workforce, 95 percent accepted a position or are already working in the 15 countries surrounding UCF, and 72 percent will stay in Florida.

### Relevance

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### Utilizing Resources

- 27% Handshake
- 48% On-Campus Resources
- 25% Networking
- 70% Online Learning
- 40% Career Services

### Earning Potential

- For graduates who reported salary information, the average annual income was $76,487.

### Fast Facts

#### 2020-21

**UCF College of Engineering and Computer Science**

<table>
<thead>
<tr>
<th>Faculty and Staff</th>
<th>1,234</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Programs</td>
<td>1,234</td>
</tr>
<tr>
<td>Undergraduate Majors</td>
<td>1,234</td>
</tr>
<tr>
<td>Online Programs</td>
<td>1,234</td>
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</tbody>
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**Degree Programs**

- Aerospace Engineering, B.S., M.S., Ph.D.
- Biomedical Engineering, B.S., M.S., Ph.D.
- Chemical Engineering, B.S., M.S., Ph.D.
- Electrical Engineering, B.S., M.S., Ph.D.
- Mechanical Engineering, B.S., M.S., Ph.D.
- Materials Science and Engineering, B.S., M.S., Ph.D.

**Degrees Conferred**

| CECS Alumni | 37,000+ |

**Cost of Attendance**

| 2020-21 | $32,200 |

**Top 15 Majors By Enrollment**

- Computer Science
- Electrical Engineering
- Civil and Environmental Engineering
- Mechanical Engineering
- Industrial Engineering

**Research Funding**

| 2020-21 | $87,000,000 |

**Endowment Assets**

| 2020-21 | $1,000,000 |

**Operating Budget**

| 2020-21 | $75,000,000 |

**Research Centers**

- Institute for Software Innovation
- Institute for Software Systems Engineering
- Institute for Software Systems Engineering
- Institute for Software Systems Engineering

**Supported Locations**

- Central Florida
- Orlando
- Jacksonville
- Tallahassee

**Giving Opportunities**

- Scholarships
- Endows Scholarships
- Student Scholarships
- Faculty Scholarships

**UCF Connect Locations**

- Orlando, FL
- Tallahassee, FL
- Jacksonville, FL
- Daytona Beach, FL

**UCF Athletics**

- Florida Gators

**For more information, visit [UCF.edu](https://tinyurl.com/UCF-Facts)**

**https://tinyurl.com/CECS-Gradday-1**

**https://tinyurl.com/CECS-Facts**
College of Engineering and Computer Science

Graduate Programs and Modalities

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

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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
- **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
- Guidance Control and Dynamics Tracks in MSEE, MSAE, and MSME
- 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 | **Expected 2022** | Also offered as fully online | *Interdisciplinary program
Program Overviews
Brief Program Overviews (10-15 min each)

- Data Analytics – Dr. Daniel Eilen (Eilen.Daniel@ucf.edu)

- Guidance Control and Dynamics (Elec.) – Dr. Kalpathy Sundaram (Kalpathy.Sundaram@ucf.edu)

- Cyber Security and Privacy and Digital Forensics – Dr. Cliff Zou (Changchun.Zou@ucf.edu)

- Professional Project & Systems Engineering – Dr. Timothy Kotnour (Timothy.Kotnour@ucf.edu)

- Computer Vision – Dr. Niels Da Vitoria Lobo (niels@cs.ucf.edu)
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
College of Engineering and Computer Science

Next Steps

CECS Virtual Graduate Programs Open House Day | Summer 2021
Benefits of a Master’s Degree

• Advance skillset
• Access to leadership roles
• Improve communication skills
• Enhance network
• Personal achievement
• And more …
Consider Career Earnings Difference


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

Summer 2021 Virtual Grad Day

Your ONE-STOP for graduate programs

Interested in getting a master’s or a Ph.D.? Don’t miss the UCF College of Engineering and Computer Science’s Graduate Open House Day! Meet college faculty and staff, and learn about new and classic academic programs.

These sessions are designed with you in mind. This is a perfect opportunity to learn about our college and get answers to your most important questions as a prospective graduate student. We want you to leave our virtual open house knowing that UCF and the College of Engineering and Computer Science are a great fit for you.

Tomorrow:

PhD Programs

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

• Getting admitted to graduate school takes effort
• Identify your motivation(s)
• Communicate with your graduate program’s coordinator
• 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