Accelerated Undergraduate-Graduate Programs

Computer Engineering - Accelerated
Undergraduate-Graduate Program
(B.S.Cp.E. / M.S.Cp.E.)

College of Engineering and Computer Science
Department of Electrical Engineering and Computer Science, Harris Corp. Engineering Center, Room: 439
http://www.eecs.ucf.edu
Email: eecepe-grad@eecs.ucf.edu

Admission Requirements

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of the GRE with a highly competitive score
- Admission is not automatic. Interested students may need to be interviewed.
- Admission to the Accelerated Program does not guarantee formal admission to the MSPE program.

Degree Requirements

- None

1. UCF General Education Program (GEP) (38 hrs)
   - See Computer Engineering major in the catalog for track GEP requirements.

2. Common Program Prerequisites (CPP) (19 hrs)
   - See Computer Engineering major in the catalog for CPP requirements.

3. Core Requirements: Basic Level (2 hrs)
   - Computer Engineering: Basic Core
     - EGN 1007C: Engineering Concepts and Methods (1 hr)
     - EGS 1006C: Introduction to the Engineering Profession (1 hr)

4. Core Requirements: Advanced Level (57 hrs)
   - Courses Required for the Engineering Core
     - EGN 3310: Engineering Analysis-Statics (3 hrs)
     - STA 3032: Probability and Statistics for Engineers (3 hrs)
   - Select 1: 3 hrs
     - EGN 3321: Engineering Analysis-Dynamics or
     - EGN 3358: Thermo-Fluids-Heat Transfer (3 hrs)
   - Courses Required for the Major
     - EGN 3304: Introduction to Discrete Structures (3 hrs)
     - COP 3502C: Computer Science I (3 hrs)
     - COP 3503C: Computer Science II (3 hrs)
     - COP 3330: Object Oriented Programming (3 hrs)
     - COP 4331C: Processes for Object-Oriented Software Development (3 hrs)
     - EEL 3004C: Electrical Networks (3 hrs)
     - EEL 3123C: Networks and Systems (4 hrs)
     - EEE 3307C: Electronics I (4 hrs)
     - EEE 3342C: Digital Systems (3 hrs)
     - EEL 3801C: Computer Organization (3 hrs)
     - EEL 4742C: Embedded Systems (4 hrs)
     - EEL 4768: Computer Architecture (3 hrs)
     - EEL 4781: Computer Communication Networks (3 hrs)
     - COP 4600: Operating Systems (3 hrs)
     - EGN 3211: Engineering Analysis and Computation (3 hrs)

5. Restricted Electives (9 hrs)
   - Technical electives should be taken at the 5000 level and are available in the BScepE program to address specific student interests in a variety of technical areas. Students should consult with their academic advisor for identification of courses that are approved technical electives and the terms when specific courses of this type are to be offered.

6. Capstone Requirements (6 hrs)
   - EEL 4914: Senior Design I (3 hrs)
   - EEL 4915L: Senior Design II (3 hrs)

7. Foreign Language Requirements

Admissions

- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score
- Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation

- None

8. Electives

- None

9. Additional Requirements

- 24 of 32 residency hours must be 3000-5000 level courses taken from the EECS Department at UCF and applicable to the undergraduate degree program.

10. Required Minors

- None

11. Departmental Exit Requirements

- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

12. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 39 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, and nine hours of Summer credit.

Total Undergraduate Hours Required

- 128

Total Combined Hours Required

- 146

Honors In Major

- None

Related Programs

- Computer Science
- Electrical Engineering
- Information Technology
- Mathematics - Engineering/Physics Track
- Physics

Certificates

- None

Related Minors

- Information Technology
- Intelligent Robotic Systems (IRS) - Interdisciplinary
- Engineering Leadership

Advising Notes

The following will be waived for this joint degree program:
- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation.
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester.
- Undergraduate students are not eligible to take 6000-level courses.

Transfer Notes

- None

Acceptable Substitutes for Transfer Courses

- None
Shared Courses (12 hrs)
- Up to 12 credit hours of approved 5000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the EE/CpE Graduate Coordinator in the Electrical Engineering & Computer Science department for acceptable courses.

Graduate Courses Link
- None

Program Academic Learning Compacts
- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: http://www.oias.ucf.edu/academiclearningcompacts.html

Equipment Fees
- Part-Time Student: $30 per term
- Full-Time Student: $60 per term