Accelerated Undergraduate-Graduate Programs

Electrical Engineering - Accelerated Undergraduate-Graduate Program (B.S.E.E. / M.S.E.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: eecpe-grad@eecs.ucf.edu
Dr. Kalpathy Sundaram
Diana Camerino
Phone: 407-823-3327

Admission Requirements
- See Common Program Prerequisites.
- Qualified students may apply after completion of a minimum of 64 credit hours.
- Completion of no more than 96 credit hours.
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year.
- Admission is not automatic. Interested students may need to be interviewed.
- Admission to the Accelerated Program does not guarantee formal admission to the MSEE program.

Degree Requirements
- None

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

A: Communication Foundations
B: Cultural & Historical Foundations
C: Mathematical Foundations
D: Social Foundations
E: Science Foundations

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

3. Core Requirements: Basic Level (2 hrs)
   - The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in this area as well as restricted elective courses and the senior design courses listed below. Independent study courses generally do not satisfy major requirements.

   Engineering Core: Basic 2 hrs
   EGS 1006C Introduction to the Engineering Profession 1 hr
   EGN 1007C Engineering Concepts and Methods 1 hr

4. Core Requirements: Advanced Level (53 hrs)
   - The courses required for the major in this area as well as restricted elective courses and the senior design courses listed below. Independent study courses generally do not satisfy major requirements.

   Engineering Core: Advanced 9 hrs
   EGN 3310 Engineering Analysis-Statics 3 hrs
   STA 3032 Probability and Statistics for Engineers 3 hrs
   PHY 3011 Physics for Engineers and Scientists III 3 hrs

   Select 1:
   EGN 3321 Engineering Analysis-Dynamics or 3 hrs
   EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs

   Courses Required for the Major 44 hrs
   EEL 3004C Electrical Networks 3 hrs
   EEL 3123C Networks and Systems 4 hrs
   EEE 3350 Semiconductor Devices I 3 hrs
   EEE 3307C Electronics I 4 hrs
   EEE 3342C Digital Systems 3 hrs
   EEL 3470 Electromagnetic Fields 3 hrs
   EEL 3552C Analog and Digital Communication Fundamentals 4 hrs
   EEL 3657 Linear Control Systems 3 hrs
   EEL 3801C Computer Organization 3 hrs
   EEE 4309C Electronics II 4 hrs
   EEL 4750 Digital Signal Processing Fundamentals 3 hrs
   EEL 4742C Embedded Systems 4 hrs
   EGN 3211 Engineering Analysis and Computation 3 hrs

5. Restricted Electives (10 hrs)
   - Technical electives should be taken at the 5000 level and are available in the BSEE program to address specific student interests in a variety of technical areas.
   - Students should consult with their academic advisor for the identification of courses which are approved technical electives and the terms when specific courses of this type are to be offered.

6. Capstone Requirements (6 hrs)
   - 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.

7. Foreign Language Requirements
   - 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 Engineering
- Computer Science
- Mathematics - Engineering/Physics Track
- Physics

Certificates
- None

Related Minors
- Engineering Leadership
- Intelligent Robotic Systems (IRS) - Interdisciplinary
- Mathematics
- Physics

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
Accelerated Undergraduate-Graduate Programs

Acceptable Substitutes for Transfer Courses
- None

Shared Courses
- 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.oeas.ucf.edu/academiclearningcompacts.html

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