### 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 and Computer Engineering, Harris Corp. Engineering Center, Room: 439**  
**http://www.ece.ucf.edu**  
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#### 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**  
     - EGS 1006C: Introduction to the Engineering Profession 1 hr
     - EGN 1007C: Engineering Concepts and Methods 1 hr

4. **Core Requirements: Advanced Level (53 hrs)**  
   - See Electrical Engineering major in the catalog for track specific GEPE requirements.
   - **Engineering Core: Advanced**  
     - EGN 3310: Engineering Analysis-Statics 3 hrs
     - STA 3032: Probability and Statistics for Engineers GEP
     - PHY 3101: General Physics Using Calculus III 3 hrs
   - **Select 1:**  
     - EGN 3321: Engineering Analysis-Dynamics 3 hrs
     - EGN 3358: Thermo-Fluids-Heat Transfer 3 hrs
   - **Courses Required for the Major**  
     - 44 hrs
       - 1 EEL 3004: Electrical Networks 3 hrs
       - 1 EEL 3123C: Networks and Systems 4 hrs
       - EEE 3350: Semiconductor Devices I 3 hrs
       - EEE 3307C: Electrons I 4 hrs
       - 1 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
       - 1 EEE 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
       - 1 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)**  
   - EEL 4914: Senior Design I 3 hrs
   - EEL 4915L: Senior Design II 3 hrs

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.

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1 A “C” (2.0) or better is required in this course.
Transfer Notes
- None

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/alc/academic_learning_compacts.htm

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