# 2017 Electrical Engineering: RF and Microwaves Track Degree Requirement Checklist

**College of Engineering & Computer Science**

**University of Central Florida**

## General Education Program
- **Communication (9 SEM HRS)**
  - EGS 1006C Intro to Engr Prof
  - EGN 1007C Engr Concepts and Methods
- **Cultural & Historical (9 SEM HRS)**
  - ENC 1101
  - ENC 1102
  - SPC 1603
- **Science (6 SEM HRS)**
  - PHY 3101 Physics for Engr and Sci III
  - EEL 3926L Junior Design

## Junior Level Required Courses
- **Electrical Networks (3 SEM HRS)**
  - EEL 3004C Electrical Networks
- **Electronics (3 SEM HRS)**
  - EEE 3307C Electronics I
  - EEE 3342C Digital Systems
- **Electromagnetic Fields (3 SEM HRS)**
  - EEL 3470 Electromagnetic Fields
- **Physics I for Engrs (4 SEM HRS)**
  - PHY 2048C Physics I for Engrs
  - PHY 2049C Physics II for Engrs

## Senior Level Required Courses
- **Mathematical (6 SEM HRS)**
  - EEE 4309C Electronics II
  - EEE 4309C Electronics II
  - MAC 2311 Calculus I
  - MAC 2311 Calculus I
- **Electrical Engineering (9 SEM HRS)**
  - EEL 4436C Microwave Engineering
  - EEE 5265 Bio-Medical Effects and Applications of EM Energy
  - EEE 5378 CMOS Analog and Digital Circuit Design

## Junior Level Elective Courses (Choose 2)
- **Electrical Networks (3 SEM HRS)**
  - EEL 3004C Electrical Networks
- **Electronics (3 SEM HRS)**
  - EEE 3307C Electronics I
  - EEE 3342C Digital Systems
- **Electromagnetic Fields (3 SEM HRS)**
  - EEL 3470 Electromagnetic Fields
- **Physics I for Engrs (4 SEM HRS)**
  - PHY 2048C Physics I for Engrs
  - PHY 2049C Physics II for Engrs

## Recommended Senior Level Elective Courses
- **Electrical Engineering (3 SEM HRS)**
  - EEE 4140C Analog Filter Design
  - EEE 5376C Fabrication of Solid State Devices

## Technical Electives (10-14 SEM HRS)
- **Electrical Engineering (3 SEM HRS)**
  - EEL 4914 Senior Design I
  - EEL 4915L Senior Design II

## Total Sem Hrs
- **71 SEM HRS**

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**Indicates minimum "C" or better grade**

**Indicates "C" minimum required by the Gordon Rule**

**A Grade of C (2.00) or higher required**

* Transfer students please see your faculty advisor before registering for these classes.

**Advisors Comments:**

- BS-MS students should choose (3 SH) 5000 level courses as electives.