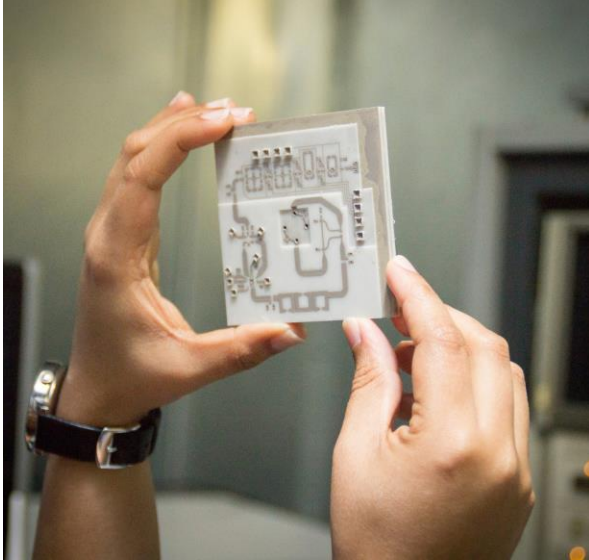


WIRELESS & MICROWAVE

MSEE PROGRAM TRACK



DESCRIPTION

This certificate recognizes post-bachelors preparation for engineering of modern wireless circuits, antennas and communication systems. The applicable course list allows significant flexibility to accommodate variability in student preparation, and course scheduling. The program allows emphasis to be placed in either circuits and antennas or systems and networks, while requiring exposure to both.

COURSE DELIVERY

The Wireless certificate is offered at the Tampa campus as well as fully online. Course offerings vary by semester, so please check the course schedule search in Oasis for specific information.

ADMISSION REQUIREMENTS

Candidates must have an earned bachelor's degree in electrical engineering or computer engineering from a regionally accredited institution with a minimum 3.0 GPA. Other applicant degrees considered on a case by case basis. International students must submit a TOEFL score when English is not the native language. A minimum score of 550 on the paper-based test or 79 on the web-based test is required.

APPLICATION PROCESS

To learn about the application process, and to access the application, please review Innovative Education's application process: <https://www.usf.edu/innovative-education/graduate-certificates/how-to-apply/application-process.aspx>

PREREQUISITES

There are no specific course prerequisites, rather students should have either a BSEE or applicable degrees/coursework, to be determined upon the time of application.



WIRELESS ENGINEERING

GRADUATE CERTIFICATE

COURSEWORK REQUIREMENTS

12 credit hours. Students may focus on one or more wireless engineering topics. Courses are to be selected under the supervision of the certificate program advisor from the following options:

RF AND MICROWAVE COURSES (3 to 9 CREDITS REQUIRED):

- EEL 5936 - Wireless Circuits and Systems Design (WAMI Class) (1 or 3)
- EEL 6426 - RF/Microwave Circuits (3)
- EEL 6427 - RF Microwave Circuits II (3)
- EEL 6425 - RF & Microwave Measurements (2 or 3)
- EEL 5462 - Antenna Theory (3)
- EEL 6368 - RF & MW Power Amplifier Design (3)
- EEE 6369 - MMIC Design (3)
- EEL 6935/6936 - Selected Elec. Topics: RF/Microwave with faculty approval (1-3)

WIRELESS COMMUNICATIONS AND SYSTEMS COURSES (3 to 9 credits required):

- EEL 6593 - Mobile & Personal Communications (3)
- EEL 6597 - Wireless Network Architecture and Protocol (3)
- EEL 6534 - Digital Communication Systems I (3)
- EEE 6502 - Digital Signal Processing I (3)
- EEL 6722 - DSP & FPGA Laboratory (3)
- EEL 6936 Wireless Communication Systems Laboratory (3)
- EEL 6935/6936 - Selected Elec. Topics: Wireless Communications with faculty approval (3)

TIME LIMIT

Students must complete the Certificate within six (6) years.

CREDIT TOWARD GRADUATE DEGREE

Certificate courses will directly apply to an MS in Electrical Engineering, subject to the applicant's admission to USF as a degree-seeking student.

DEPARTMENT CONTACTS

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