

Certificate in Embedded Systems (Electrical Engineering)

About This Program

The Undergraduate Certificate in Embedded Systems (Electrical Engineering) educates students in the knowledge and skills required to design, develop, and deploy embedded systems including industrial, security, entertainment, and automation Systems. This program aims at the dual goal of providing the UVS industry with a knowledgeable, locally available workforce and developing career opportunities for its participants.

Competencies

1. Upon completion of the certificate, students will demonstrate hardware/software development techniques for microprocessors and their programmable peripherals, perform DMA/SDRAM controller design, and real-world interfacing.
2. Upon completion of the certificate, students will have gained proficiency in C programming, HDL, and design of digital systems using programmable logic devices and high-level techniques.

Admissions Criteria

Current enrollment in an engineering undergraduate program at UTA with a minimum GPA of 3.0.

Curriculum

Foundations

EE 4311	EMBEDDED MICROCONTROLLER SYSTEMS	3
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Electives

Select 2 from the following:		6
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EE 4310	MICROPROCESSOR SYSTEMS	
EE 4312	ADVANCED MICROPROCESSOR SYSTEMS	
EE 4334	PROGRAMMABLE LOGIC DESIGN	

Total Hours		9
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Program Completion

The average GPA of all courses used to satisfy the certificate requirements must be 3.0 or better. The time limit for completion of the certificate program is 6 years.

Advising Resources

First time in college students meet with engineering advisors in the UAEC (UAECEngineering@uta.edu). Transfer students are advised prior to New Maverick Orientation by the department. Students, please read all student emails carefully and consult the department advising webpage for additional contact information and answers to common questions.

ELECTRICAL ENGINEERING

Location:

NH 501

Email:

ee_ug_advising@uta.edu

Phone:

817-272-2671

Web:

Schedule Advising (<https://outlook.office365.com/owa/calendar/EEAdvising@bookings.uta.edu/bookings/>)

RESOURCE AND ENERGY ENGINEERING

Location:

NH 513

Email:

ree_ug_advising@uta.edu

Phone:

817-272-6514

Web:

Schedule Advising (<https://outlook.office365.com/book/EEAdvising@bookings.uta.edu/>)