

CERTIFICATE IN ADVANCED ELECTRONICS

This program is composed entirely of elective courses and provides advanced study in electronic design and device theory for those who wish to enhance their analog and digital design skills, while increasing their knowledge of the underlying device physics.

Gainful Employment Disclosure for the Certificate in Advanced Electronics

Curriculum

A maximum of two 400-level courses may be taken.

Code	Title	Credit Hours
Elective Courses		(12-13)
Select a minimum of four courses from the following:		12-13
ECE 401	Communication Electronics	3
ECE 411	Power Electronics	4
ECE 425	Anlys Dsgn Intgrtd Circuits	3
ECE 429	Intro to VLSI Design	4
ECE 430	Fund of Semiconductor Devices	3
or ECE 523	Fund of Semiconductor Devices	
ECE 502	Basic Network Theory	3
ECE 521	Quantum Electronics	3
ECE 524	Adv Electronic Circuit Design	3
ECE 525	RF Integrated Circuit Design	3
ECE 526	Active Filter Design	3
ECE 527	Perform Anlys RF Intgrtd Crcts	3
ECE 529	Advncd VLSI Systems Dsgn	3
ECE 530	High Performnc VLSI/IC Systems	3
ECE 571	Nanodevices Technology	3
ECE 575	Electron Devices	3
ECE 588	CAD Techniques VLSI Dsgn	3
ECE 589	CAD of Analog IC	3
Total Credit Hours		12-13