

# CERTIFICATE IN SIGNAL PROCESSING

Those seeking expertise in the areas of signal and image processing should take this program, which offers a wide range of advanced courses in the areas of digital signal processing, data compression, image and speech processing, and pattern recognition.

Gainful Employment Disclosure for Certificate in Signal Processing

## Curriculum

Code	Title	Credit Hours
<b>Required Courses</b>		
		<b>(6)</b>
ECE 437	Digital Signal Processing I	3
or ECE 569	Digital Signal Processing II	
ECE 565	Compt Vision Image Processing	3
or ECE 566	Machine and Deep Learning	
<b>Elective Courses</b>		<b>(6)</b>
Select a minimum of two courses from the following: <sup>1</sup>		6
ECE 437	Digital Signal Processing I	3
ECE 481	Image Processing	3
ECE 501	AI and Edge Computing	3
ECE 505	Applied Optimization Engrgs	3
ECE 507	Imaging Theory & Applications	3
ECE 508	Video Processing & Comm	3
ECE 510	IoT and Cyber Physical Systems	3
ECE 511	Analysis Random Signals	3
ECE 528	Application Software Design	3
ECE 563	AI in Smart Grid	3
ECE 565	Compt Vision Image Processing	3
ECE 566	Machine and Deep Learning	3
ECE 567	Statistical Signal Processing	3
ECE 568	Digital Speech Processing	3
ECE 569	Digital Signal Processing II	3
ECE 584	VLSI Archs Sgnl Prcs Commnctns	3
ECE 590	Object-Oriented Program & ML	3
<b>Total Credit Hours</b>		<b>12</b>

<sup>1</sup> No more than one selection may be a 400-level course.