H-Form ECE 374

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Communications Engineering Program		
Course Name	Digital Signal Processing		
Course Code	ECE 374		
Year / Level	3/7		
Credit Hours	3		
Contact Hours	Lecture: 3	Lab/Tutorial: 2	Training: 0
Language	English		
Track	☐University ☐College ☐Department ☒Program		
	☒Required ☐ Elective		
Pre-requisites Course	ECE 270		
Co-Requests	-		
Course Description	Review of signals and systems. Discrete-time systems classification. Linear shift-invariant system response, difference equations, convolution, and frequency response. Discrete Fourier transform. z-transform and its application to system analysis. Realization forms. Sampling and aliasing. Finite-impulse response (FIR). Design windowing technique. Introduction to infinite impulse response (IIR). Filter design techniques.		