The Hashemite University
Faculty of Engineering
Course Syllabus

Course Title:	Signals and Systems	**Course Number:**	409220
Department:	Electrical Engineering	**Designation:**	Compulsory
Prerequisite(s):	Engineering Mathematics (409200)		
Instructor:	Ashraf A. Ali	**Instructor's Office:**	Eng. 3057
Instructor's e-mail:	ashraf@hu.edu.jo staff.hu.edu.jo/ashraf		
Office Hours:	Sun, Tue, Thurs: 12:00-1:00 Mon. 9.30-11.00		
Time:	Sun, Tue, Thurs 1:00-2:00	**Class Room:**	Eng. 2019
Course description:	In this course, students will learn the basic concepts of signals (continuous-time and discrete-time) and their representation as time functions, their characteristics. Students are introduced to linear time-invariant (LTI) systems and their properties and response to input signals. Most importantly, students will learn Fourier series and various transforms that describe signals and systems in the frequency domain. In addition to laplace transform.		
Textbook(s):	Phillips, C. L., and Parr, J. M. and Riskin E., A., "*Signals, Systems, and transforms*", 4th ed, Prentice hall.2008.		
Other required material:	None		
Course objectives:	To provide students with fundamental concepts of signals and systems (in both time and frequency domains) and their characteristics		
Topics covered:	• Continuous-time signals and systems CH 2 • Continuous-time LTI systems CH 3 • Fourier series CH 4 • The Fourier transform CH 5 • The Laplace transform CH 7 • Discrete-time signals and systems CH 9		
Class/laboratory schedule:	3 class sessions each week; 50 minutes each (Sec. 1)		
Grading Plan:	First Exam (25 Points) Second Exam (25 Points) Final Exam (50 Points) Will be announced by the registrar		
General Notes:	Attendance is mandatory. No more than 15% no excuse absent is permitted.		