

**The Hashemite University
Faculty of Engineering
Course Syllabus**

Course Title:	Engineering Mathematics	Course Number:	2409200
Department:	Electrical Engineering	Designation:	Compulsory
Prerequisite(s):	Calculus II (0101102)		
Instructors:	Ashraf A. Ali	Instructor's Office:	3057
Instructor's e-mail:	Ashraf@hu.edu.jo	web:	staff.hu.edu.jo/ashraf
Office Hours:			
Class Time:	12:00-13:00 (Sun, Tue)	Class Room:	EE 2007
Course description:	This course is intended to serve as an introduction to linear algebra, differential equation, and other mathematical tools that are important in many applications of engineering. It also aims to enhance the student mathematical skills toward the advanced courses in his/her study plan.		
Textbook(s):	Kreyszig E ." Advanced Engineering Mathematics. 9 th ed.". John Wiley, 2007.		
Other required material:	Instructor notes.		
Software:	Matlab.		
Course objectives:	<i>The student should be able to</i> <ol style="list-style-type: none">1. Manipulate complex numbers and function defined on them easily.2. Matrix manipulation and linear algebra3. Determine Laplace transform of functions and use the LT to solve linear DEs.		
Topics covered:	<ol style="list-style-type: none">1. Complex numbers and complex functions.2. Matrix manipulation and linear algebra3. Laplace Transform (LT) .		
Class/laboratory schedule:	2 class sessions 60 minutes each per week.		
Grading Plan:	First Exam (25 Points) 11/3/2012 Second Exam (25 Points) 22/4/2012 Final Exam (50 Points)		
General Notes:	Attendance is mandatory. No more than 15% no excuse absent is permitted.		