

## Advanced Engineering Math II

Week	Lect No.	Date	Topic
1	1	3-Sep	Functions of a Real Variable
	2	5-Sep	Complex Numbers
2	3	10-Sep	Complex Functions and Derivatives
	4	12-Sep	Analytic Functions and the Cauchy-Rieman Equations
3	5	17-Sep	Elementary Functions
		19-Sep	<b>Holiday</b>
4	6	24-Sep	More Elementary Functions
	7	26-Sep	Integrals
5	8	1-Oct	Cauchy Integral Formula and Power Series
		3-Oct	<b>Holiday</b>
6	9	8-Oct	Taylor Series and Laurant Series
	10	10-Oct	Residue Integration
7	11	15-Oct	Fourier Series Representation of Functions
	12	17-Oct	Complex Fourier Series and the Frequency Domain
	13	18-Oct	Review Session for the Midterm Exam
8		22-Oct	<b>Midterm Exam</b>
9	14	29-Oct	Fourier Series Properties and Applications
	15	31-Oct	Fourier Series and the Heat Equation
10	16	5-Nov	The Fourier Transform
11	17	7-Nov	Introduction to Probability Theory
	18	12-Nov	Conditional Probability
	19	14-Nov	Bayes' Theorem and Statistical Independence
12	20	19-Nov	More in Independence, Problems, and Examples
	21	21-Nov	Repeated Trials
13	22	26-Nov	Random Variables
	23	28-Nov	Distribution Functions, Probability Mass/Density Functions
14	24	3-Dec	Expected Values
	25	5-Dec	Conditional Distributions, Problems and Examples
15	26	10-Dec	
	28	12-Dec	Summary and Review
16		17-Dec	<b>Final Exam</b>