## DEPARTMENT OF ELECTRICAL ENGINEERING University of Washington Autumn Quarter 2017

	Autumn Quarter 2017
Course:	EE 590 B
Title:	Analytical Methods for Electrical Engineering
Credit:	4 Units
Time:	Lecture is Wednesday, $6:00 - 8:50$ PM in EEB 105
Instructor:	Professor Eve A. Riskin (EE1 230, 206.685.2313, email: riskin@uw.edu)
Instructor Office Hours:	Sunday, 2:30 – 5:00 PM in Sieg 128
Teaching Assistant:	Yana Sosnovskava, EE PhD student (vsos@uw.edu)
TA Office Hours:	TBD
Homework:	There will be weekly homework due in class (eight over the quarter). There will also be four computer labs due over the quarter.
Course Goal:	This course is a review of the analytical methods you learned in your undergraduate studies.
Topics/Approximate time table:	1. September 27: Course introduction, Math review, Introduction to Matlab; Hand out Problem Set 1, Lab 1, and optional Problem Set 0.
	2. October 4: Begin continuous-time linear signals and systems. Problem Set 1 due. Hand out Problem Set 2. I am out of town on October 8 so Yana will cover my office hours that day in Sieg 128.
	3. October 11: Continuous-time linear signals and systems. Problem Set 2 and Lab 1 due. Hand out Problem Set 3 and Lab 2.
	4. October 18: Fourier Series. Problem Set 3 due. Hand out Problem Set 4.
	5. October 25 (I am out of town. Professor Josh Smith will lecture this evening.): Fourier Transform. Problem Set 4 and Lab 2 due. Hand out Problem Set 5 and Lab 3.
	6. November 1: Discrete-time linear systems. Problem Set 5 due. Hand out Problem Set 6.
	7. November 8: Discrete-time linear systems. Problem Set 6 and Lab 3 due. Hand out Problem Set 7 and Lab 4.
	8. November 15: Linear algebra review. Begin probability and stochastic processes. Problem Set 7 due. Hand out Problem Set 8.
	9. November 22: NO CLASS
	10. November 29: Probability and stochastic processes. Problem Set 8 and Lab 4 due.
	11. December 6: Additional topic and course wrapup. Hand out final exam which is take- home and will be due during Finals' Week.
Grading:	Grading is based as follows:
	<ol> <li>Problem sets: 45%</li> <li>Computer labs: 35%</li> <li>Final exam: 20%</li> </ol>

- Web Page: The EE 590 B Canvas Page is located at https://canvas.uw.edu/courses/1116488
  - Email: You can email me with personal issues but questions about the homework and laboratories should be posted on the class bulletin board.
- Final Exam: The final exam will be take home. It will be given out on December 6 and will be due during Finals' Week.