

ECE 130A/Fall 2007
Lecture Schedule

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| Lecture | Date | Topics | Reading Assignment |
|---------|-------|---|--------------------|
| 1 | 10/1 | Introduction; Signal Examples | 1 |
| 2 | 10.3 | System Examples & Properties | 1 |
| 3 | 10/8 | Impulse response | 2.2 |
| 4 | 10/10 | Convolution | 2.2 |
| 5 | 10/15 | Properties of LTI systems | 2.3 |
| 6 | 10/17 | Fourier Series | 3.3 |
| 7 | 10/22 | Fourier Series Properties & Examples | 3.4-3.5 |
| 8 | 10/24 | Midterm Review | |
| 9 | 10/29 | Midterm Exam (covers HW1-3) | |
| 10 | 10/31 | Fourier Transform | 4.1-4.3 |
| 11 | 11/5 | Fourier Transform Properties & Examples | 4.1-4.4 |
| 12 | 11/7 | More Fourier transform properties | 4.1-4.5 |
| 13 | 11/12 | Application to comm systems (preview of ECE 146A and 146B) | |
| 14 | 11/14 | Laplace Transform | 9.1-9.3 |
| 15 | 11/17 | Laplace Transform Properties & Examples | 9.5-9.6 |
| 16 | 11/19 | Application to LTI systems (incl. geometric eval of Fourier transform) | 9.7, 9.4 |
| 17 | 11/21 | Solving differential equations and the unilateral Laplace transform | 9.7.3, 9.9 |
| 18 | 11/26 | Bode plots for 1st & 2nd order systems | 9.4, 6.5 |
| 19 | 11/28 | System interconnections, feedback | 9.8, 11.1 |
| 20 | 12/3 | Sampling (continuous to discrete time) (entry point to ECE 130B) | 7.1-7.3 |
| 20 | 12/5 | Review for Final Exam | |