

# ECE 210 Honors Section - Fall 2018

## Instructors

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## Course Description

This course is designed to introduce students to Matlab and Python, as well as introductory signal processing concepts. The content covered in this section will be useful for many other ECE classes and labs. Weekly assignments will help students understand the concepts, as well as give them practice using Matlab and Python. (Piazza signup link: [piazza.com/illinois/fall2018/ece210](https://piazza.com/illinois/fall2018/ece210))

## Course Schedule

There are 2 sessions for this course which are shown below. Students can attend either session and can also swap sessions between weeks. **There will be no session held during exam weeks.**

Mondays - 5:30-7:30 PM - DCL L440

Thursdays - 5:00-7:00 PM - DCL L416

**Sessions will begin Monday, September 17th.**

## Honors Registration

1. Collect an Honors Contract Learning Agreement form from the Engineering Undergraduate Advising Office (206 Engineering Hall)
2. Fill out the form and get signatures from your ECE 210 instructor (Juan Alvarez, Xu Chen, Songbin Gong, Stephen Levinson)
3. Submit it in Engineering Hall
4. Attend the honors sessions, complete the weekly assignments

## Grading and Honors Credit

- All students must complete all 7 lab exercises and a final assignment to receive honors credit. Students will be given until the Tuesday of the following session to complete the lab exercises.
- Students must also obtain a minimum of a B- in ECE 210 to receive honors credit.

## Course Policies

Assignments should be completed and ready for demo by the beginning of the following week's session. If something prevents you from attending a session, such as a job interview or exam, please contact us! **Cheating and plagiarism is not allowed.** You may discuss the assignments with other students, but may not copy someone else's work.

[http://studentcode.illinois.edu/article1\\_part4\\_1-402.html](http://studentcode.illinois.edu/article1_part4_1-402.html)

## Weekly Schedule

<b>Week #</b>	<b>Software</b>	<b>Topic</b>
1	Matlab	Mathematical Functions, Graphing Tools, Vector and Matrix Arithmetic
2	Matlab	Control Flow, Iterative and Vectorized Solutions
3	Matlab	Control Flow, Iterative and Vectorized Solutions (Continued)
4	Matlab	Finishing Matlab
5	Python	Syntax, Graphing Tools, Lists, Tuples, Arrays
6	Python	Dictionaries, Intro to Signal Processing
7	Python	Signal Processing Continued
8	Both	Final Thoughts, Extra Material, Q/A