E E 108 S: Introduction to Python

Course description:
Python is a versatile programming language that is used in many industries, including Electrical and Computer Engineering. This is partly due to Python being an interpreted language (as opposed to compiled) that provides syntactic tools to speed up translating algorithms to code. The goal of the course is to help students feel comfortable using Python 3.6 (and other Python versions) and the Python ecosystem and to give a sense for the tradeoffs between C/C++ and Python.

Prerequisites: N/A

Target audience: Students who are comfortable programming in at least one high-level language. Undergraduate status is required.
Instructor: Asem Elshimi

Email:

Course objectives:
At the completion of this course, students will:
1. understand the core language features available in Python.
2. learn best practices for coding in Python.
3. be introduced to third-party Python libraries.

Course meeting times:
Lecture: M 6:30 p.m.-8:00 p.m., Room: EER 1.516
Lab sessions:
W 6:30 p.m.-8:00 p.m., Room: EER 1.516
Or TH 6:30 p.m.-8:00 p.m., Room: EER 1.516

Course logistics:
Each week, there will be one 1.5-hour long lecture on Monday and one 1.5-hour long lab session on Wednesday or Thursday, for seven weeks total. There will be assignments throughout the semester that solely determine the final grade (see assignments section below). To pass, you must receive an average of at least 60% on the assignments. Lectures and labs will be interactive, so please bring your laptops.

Assignments:
The assignments will primarily be small software projects that have some practical use. Assignments are due within a week of their release date. Late assignments are penalized by 15%. Assignments must be submitted independently. Late assignments must be turned in before the last week of class to be considered.

Advising notes:
This course can only be taken on a pass/fail basis and cannot count toward the academic enrichment technical core. More specifically, the EE 107S course does not count towards the ECE major, and has 0 hours of engineering topics and 0 hours of math and basic science for the purposes of ABET metrics.