Course Title: Beginning Programming: Python
Course Code: CS 59
Instructor: Mohammad Shokoohi-Yekta
Lecture: Fridays 7-8:50pm

Grade Options and Requirements:

- No Grade Requested (NGR)
  - Final project is optional
- Credit/No Credit (CR/NC)
  - Final project is required
- Letter Grade (A, B, C, D, No Pass)
  - Final project is required

*Please Note: If you require proof that you completed a Continuing Studies course for any reason (for example, employer reimbursement), you must choose either the Letter Grade or Credit/No Credit option. Courses taken for NGR will not appear on official transcripts or grade reports.

Final Project and Presentation:

The final project (due on Week 6) will be done in groups of 2 or 3.
As a team you will be working on a project of your interest, and implementing it in Python. Your Python implementation should include at least “if conditions” and “Loops.” Your innovation in picking a subject really matters, that’s the fun part. Here are a few examples: Tic Tac Toe, Tax Return App, Charity App, Hangman, Calculator, etc. You can make any assumptions you like for implementing your project. Please feel free to talk to me or send me an email to get feedback on your subject before you start implementing the idea.

During the final session (Week 6) each team will have 5-10 minutes to present their project. You may want to create slides and include the following items:

1. Explain your chosen project
2. Show us a demo of your project and run your code in real time
3. Explain the details and implementation issues
4. Discuss the challenges you faced with
5. Describe a future work, as it could be done to improve your project

Please contact the Stanford Continuing Studies office with any questions
365 Lasuen St. Stanford, CA 94305
continuingstudies@stanford.edu
650-725-2650
### Weekly Timetable:

<table>
<thead>
<tr>
<th>Week</th>
<th>Python Topic</th>
<th>Extracurricular Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro to Programming, Getting started with Python</td>
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</tr>
<tr>
<td>2</td>
<td>Variables, Assignment, Operators</td>
<td>Data Mining-Mice Project</td>
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<tr>
<td>3</td>
<td>Built-in functions, if statements</td>
<td>Data Mining-Prediction</td>
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<tr>
<td>4</td>
<td>While/For Loops</td>
<td>Machine Learning</td>
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<tr>
<td>5</td>
<td>Arrays/Lists, Data structures</td>
<td>Software Engineering Interviews</td>
</tr>
<tr>
<td>6</td>
<td>Search/Sorting algorithms, Functions</td>
<td>Project Presentations</td>
</tr>
</tbody>
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