

## Course Syllabus Part II

### DSC 510 Introduction to Programming

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#### Course Resources

##### Course Text:

Python For Everybody, Exploring Data Using Python 3; Charles R. Severance

- Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License.
- Accessible Here: <https://py4e.com/book.php>

Automate The Boring Stuff With Python by Al Sweigart

- Available at <https://automatetheboringstuff.com/>

#### Required Resources:

In this course, you will need to be able to:

- Access the Internet
- Access Cyberactive
- Access to Github
- Collaborate Online via Video and Voice
- Collaborate while writing a single document
- Submit a Word Document
- Python programming environment using PyCharm

#### Supplemental (not required) Resources:

- Learnpython.org – <https://learnpython.org>
  - Python documentation - <https://docs.python.org/3.7/>
  - Hitchhiker's Guide to Python - <https://docs.python-guide.org/>
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#### Course Schedule

Week	Topic
1	Introduction to Programming, IDEs, GIT
2	Variables and Math Operations
3	Conditional Execution
4	Functions
5	Loops
6	Strings and Lists
7	Breather Week
8	Dictionaries, Tuples, and JSON Data
9	File Operations, Error Handling
10	Introduction to Web Services
11	Object Oriented Programming (OOP), Markdown
12	Final Project Due

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## Course Activities

### Discussions

There are discussions throughout the course. These discussions will help you to dig deeper into the material and learn from each other's observations and experiences. Replies are required to discussions, as indicated in the instructions for each discussion. The discussions are worth 6-10 points each. Together, they are worth 206 points and 25% of the student's total grade.

### Project

This course has one major programming assignment. In this project the students create a fully functional Python program that applies knowledge and skills from previous lessons. This project is worth 200 points and accounts for 25% of the student's total grade.

### Assignments

Except in the case when there is a project, students have an assignment for each week. The assignments are worth 40 points each and account for 50% of the student's total grade.

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### Grade Breakdown/Criteria

Component:	Percentage	Point Value	Number of Times	Total
Discussions	25%	6-10 Points	Twice per week for 10 weeks, plus intro	206
Assignments	50%	40 Points	Once per week for 10 weeks.	400
Project	25%	200 Points	Midterm and Final	200
			Total Points	806

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### Late Work

For example: Late work is not accepted unless arrangements are made with the instructor for special circumstances.

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### Participation

Students are expected to login often and contribute to the class on a regular basis, including posting to the discussion board, submitting assignments, and participating in group activities as required. If you have specific participation requirements related to your educational funding or student status, you are expected to monitor your own participation to ensure you are in compliance with those requirements.

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### Expectations for Students

- Students should expect to spend approximately 10-15 hours per week to complete the activities and assignments in this course [as indicated in the credit hour verification].
- Students will log in as often as needed to complete their assignments and progress through the course.

- Students will treat their classmates and the instructor with respect and courtesy.
  - Students are responsible for keeping current with the reading assignments and coming to class prepared to discuss the work assigned.
  - Students are responsible for knowing what assignments are due and when.
  - Students will submit only their own work and will not commit plagiarism or other acts of academic dishonesty.
  - Students will contact the instructor as soon as personal problems arise that may affect the student's ability to complete assignments on time.
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### **Expectations for Faculty**

- The instructor will treat all students with respect and courtesy.
  - The instructor will make grading criteria clear and follow the criteria scrupulously in evaluating student work.
  - The instructor will provide feedback about student work within 6 days of due dates (or 24 hours prior to the next due date)—feedback that helps the student learn and improve.
  - The instructor will respond to all student phone and email messages within 48 hours.
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