# COMMUNITY COLLEGE OF RHODE ISLAND

**COMI-1150- SDT**

**Programming Concepts**

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Office Hours: Mon-Friday by appointment after 3:30

**This syllabus is subject to change at any time at the discretion of the instructor. Students are**

**responsible for keeping current with changes made to this syllabus.**

**You must have internet access and it is suggested a windows computer to complete this course. Some chromebooks allow rooting to install the program we will use, others will not; macbooks can be used but may require extra configuration on your part.**

**Text and Materials**: You will need the book first day of class!

**STARTING OUT WITH PYTHON Tony Gaddis, Pearson Publishing**

**ISBN-13: 978013444432-1 (4th edition) \*\*You can buy the loose leaf version for $84 and put in your own binder.**

**Software**: Microsoft Windows 7 or higher; Internet Explorer 7 or higher.

**Python 3.5.1** or higher <http://www.python.org>

**Visual Studio Code:** Not mandatory, Can use Python

**Handouts:** Additional handouts may be required. Instructor will provide information on obtaining this material.

**Online Tools**: As the semester goes on, I will add items

**Class Materials**: Calculators may be useful for checking the results of your work, but they will not be allowed on most exams. You will need pencils (no pens) for your exams. You may also find a small section of colored pencils to be useful.

**Course Description**:

Upon successful completion of this course, students will be able to analyze a problem and design

a complete computer program using functions, loops, conditional statements, and input and

output statements. This will be accomplished using a combination of tools, including flowcharts,

pseudocode, and Python.

**Course Objectives**:

At the completion of this course, students will be able to:

* Use programming terminology correctly in discussion of course topics
* Identify the need for a variable and select the appropriate primitive data representation
* Distinguish between a reference to an array and a reference to an array element
* Write simple mathematical formulae in pseudocode and flowcharts
* Write Boolean expressions to control the flow of a program
* Write programs that use internal documentation and standard white space conventions to communicate program design
* Create flowcharts and write syntactically correct pseudocode to solve small programming problems using structured programming techniques
* Use a variety of desk-checking or debugging techniques on programs written with structured programming techniques

**Class Success**

To succeed in this course, you must complete all required reading and assignments on schedule. You cannot learn this material without practice. It is your responsibility to ask questions every time there is a concept that does not make sense.

**Academic Honesty Policy**

The programming assignments, reading checks, and optional challenges are individual work and are to be completed by you alone.

This means, but is not limited to, the following:

* You may ask me for help on any problem! But please understand that the help I give on graded assignments will be limited because graded work is an assessment of what you can do alone. Please ask questions if you have them, and I will give you some assistance.
* You may not ask for or receive help from any other person. Do not talk to anybody but me about a graded assignment.
* You may not offer or give help to another person on graded work. Students have failed and been expelled for “helping” others. Please take this seriously. If somebody asks you for help, suggest they talk to me. You may not use code for graded work that you did not write yourself. There are exceptions to this rule, however. You may use code that is provided as part of an assignment. You may use code from the textbook, videos, labs, or any other examples I provide as part of the course materials.
* You may not use diagrams that you did not create yourself.
* You may not use another person’s comments, descriptions, or any other text that is part of a graded assignment. The exception to this rule is, again, that you may use any text that is provided as part of an assignment, or that is from the textbook, videos, labs, or any other examples I provide as part of the course materials.
* You may not link to external libraries or use tools that automatically generate code or diagrams.

\*\* You may ask and answer questions about the labs, textbook, or videos, as long as you do not discuss a graded assignment.

Students sometimes turn to the Internet to research the solution to a programming problem. The best advice I can give you is: do not do this for any assignment, but especially not for a graded assignment. In this course, you may not use any code from any Internet source. You may use the Python.org Python documentation to understand how Python works, but do not copy examples from the Python documentation.

Work that I have determined is in violation of the class academic honesty policy will be handled according to the college’s academic integrity policy. This means that I will notify you, my department chairperson, and the dean of students of all violations. There are no exceptions to this policy, and this does mean that the violation will appear on your permanent record. You may then proceed according to the college’s policy if you disagree. I recommend that you retain all notes and early versions of work so that you can defend its origins.

**Grading**

You must complete the Syllabus Quiz in Blackboard with a grade of 100, or you will be removed from the course at enrollment verification. Please read the syllabus carefully, ask me questions if any parts are not clear, and complete the quiz. You may take the quiz as many times as you need to earn a 100.

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| --- | --- |
| Review Papers, Quizzes, Attendance | 30% |
| Programming Assignments | 40% |
| Mid Term | 15% |
| Final | 15% |

**Homework Assignments**

* Due dates for all assignments will be announced in class, and they will also be posted on Blackboard. No late submissions will be accepted without reductions. 1-2 days 50%; after 3 days 0%. All assignments must be completed so do yourself a favor and get a grade for the work.
* Guidelines will be provided per assignment as to how I expect your program submissions to look. These guidelines must be followed. Not following the guidelines will result in point deductions or rejection of the assignment.
* <http://blackboard.ccri.edu>
* All email to the Instructor must have SDT in the subject line so it can be filtered to the proper folder.

**Quizzes and Exams**

* Quizzes and exams are closed book, closed notes unless otherwise specified.
* Calculators are only allowed with permission, and only for specified exams.
* **No makeup quizzes or exams will be given** without an acceptable reason, and you must inform me beforehand.

**Classroom Behavior**

* Cell phone use is prohibited. Keep them on silent or vibrate, but do not let me hear it ring in class.
* During exams, *all* electronic devices are prohibited unless otherwise specified.
* Students are expected to work independently. **Offering** or **accepting** solutions from others is an act of **plagiarism**, which is a serious offense and **all involved parties will be penalized** **according to the Academic Honesty Policy**.
* Discussion amongst students is encouraged, but when in doubt, direct your questions to the instructor.
* **There is no MAKE-UP work!**

**Attendance and Absences**

* Attendance is expected and will be taken each class and counted towards your final grade.
* You are to be ON TIME! Late arrivals are a disruption to the entire class and will negatively affect your grade.
* This class will move fast and it will be nearly impossible to catch up if you fall behind. Do NOT fall behind!!
* Students are responsible for all missed work, regardless of the reason for absence.
* It is also the student’s responsibility to obtain all missing notes or materials required to complete the missed work (use the buddy list).
* All policies set forth in handbook. <http://www.ccri.edu/advising/new_students/student_handbook>

**COMI 1150 Programming Concepts**

This syllabus **is not** definitive, it will flux, it is just an Outline!

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| **Week** | **Date** | **In Class Topic** | **Home Reading Assignment** | **Assignments** |
| 1 | 8/25 | Python Tutorial | Python Tutorial | Tutorial |
| 1 | 9/3 (Thursday) | Chapter 1 & 2 | Chapter 1 &  Chapter 2 | P1 & P2  Review 2 |
| 2 | 9/8 | Chapter 2 | Chapter 2 & 7 | P3  Review 7 |
| 2 | 9/10 (Thursday) | Chapter 7 | Chapter 7 | P4 & P5 |
| 3 | 9/15 | Chapter 7 & 3 | Chapter 3 | P6  Review 3 |
| 3 | 9/17 (Thursday) | MidTerm | 1,2,7 |  |
| 4 | 9/22 | Chapter 3 | Chapter 3 & 4 | P7 |
|  |  |  |  |  |
| 4 | 9/24 (Thursday) | Chapter 4 | Chapter 4 | Review 4 |
| 5 | 9/29 | Chapter 4 | Chapter 4 & 5 | P8 |
| 5 | 10/1 (Thursday) | Chapter5 | Chapter 5 | P9  Review 5 |
| 6 | 10/6 | Chapter 5 |  | Study Final |
| 6 | 10/8 (Thursday) | Final |  |  |
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| \*Chapter 6 will be added if we can squeeze it in. Will not be on final. |  |  |  |  |
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**Important dates**

Class Begins: 8/25/2020

MidTerm: 9/17/2020

Final: 10/01/2020