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**Computer Information Systems**

**Introduction to Object Oriented Programming**

**CIS-105-75**

**Fall 2017**

**Prepared by: Dr. G. Steube, CCP**

**COURSE SYLLABUS**

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| COURSE DESCRIPTION | **CIS-105:**  Introduction to Object-Oriented Programming, students will develop problem-solving skills, construct algorithms, and use good programming practices. Students will learn to use decision statements, loops, functions, arrays, and classes. The course assumes some experience with computers.  **Prerequisite:** READ A-D and MAT-099. Two hours lecture and two hours of lab each week. Three credits. Three billable hours. |
| INSTRUCTOR | Dr. G. Steube, CCP |
| CLASS MEETINGS | Online |
| OFFICE HOURS | Monday & Wednesday: 1:30 pm – 2:00 pm  Tuesday & Thursday: 10:30 am – 12:30 pm  Additional hours by appointment |
| OFFICE LOCATION | M250E |
| PHONE VOICE MAIL | 410-386-8464 |
| E-MAIL | [gsteube@carrollcc.edu](mailto:gsteube@carrollcc.edu)  (The best way to contact me is through email. I will respond in less 24 hours.) |
| WEBSITES | http://carrollcc.blackboard.com  This site will be used for announcements, posting of grades, online quizzes, and document storage.  <http://myprogramminglab.com>  This site will be used for practice of programming concepts and syntax with immediate feedback.  Use CourseID: CARCOM-4051-0 |
| DIVISION CHAIR | Rob Brown, Division Chair, Office M-257A, [rbrown@carrollcc.edu](mailto:rbrown@carrollcc.edu) 410-386-8224 |
| REQUIRED TEXTBOOK | Gaddis, T. (2018). *Starting out with Python* (Fourth edition). Boston: Pearson.  (w/MyProgLab w/Pearson eText Access Code)  ISBN: 978-0134444321 |

**COURSE OBJECTIVES**

Upon successful completion of this course, students will be able to:

1. Use decision statements in a program (GE2, PG2).
2. Use loops to manipulate data (GE2, PG2).
3. Create, call and return data from classes and functions (GE2, PG2).
4. Read and/or write data to a file (GE2, PG2).
5. Write code to handle program exceptions (GE2, PG2).
6. Use arrays to sort and search data (GE2, PG2).
7. Perform string manipulations (GE2, PG2).
8. Debug code by fixing syntax and logical errors (GE2, PG2).
9. Explain how a program works by going through the code line by line. (GE1, GE2, PG1, PG2, PG4, PG5).

**EXPECTATIONS OF STUDENT BEHAVIOR**

* A student wishing to withdraw from some or all of his/her courses should understand that such withdrawal is **NOT** effective until the student completes the withdrawal process!
* The school is committed to accommodating students with disabilities. Please let your instructor know of your special needs.
* Please consult the Student Handbook for policies regarding Student Conduct and Academic Action.
* Students that are caught cheating or not submitting their own work will receive a zero for that assignment. A second occurrence of cheating will result in a failing grade for the course. The person that allows someone to copy their work will also receive a failing grade.
* Electronic Devices - IPODs and cell phones should be not be on in Lecture.
* **Late Assignments:**

Assignments turned in up to one week late will incur a 20% grade reduction. Assignments will not be accepted a week or more after the assignment due date.

* **Makeup tests:**

Students are expected to take tests at the assigned date and time. Makeups may be given at the discretion of the instructor. In general, students should contact the instructor before the time of the test to ask for a makeup or extension. If an emergency arises and you are unable to contact the instructor in advance, contact must be made within 24 hours of the time that the test was administered.

* **Communication:**

Please be sure to include your full name and class number at the end of the email.

* **Cancellation Policy:**

If for any reason a class is cancelled or the college campus is closed, it is each student's responsibility to visit the college Blackboard site for the course relevant announcements and/or assignments.

* **Attendance Policy:**

Each student is responsible for all material covered in class. Therefore, those students who have a need to be absent are responsible for obtaining all notes and materials given during the missed class session.

Regarding the issue of lateness, students are expected to be in class on time and ready to work from the time that class officially starts to the time it officially ends. There is quite a bit of work to cover and this really does need to be enforced.

* **Withdrawal:**

If a student withdraws from a course a grade of "W" will be included in his/her permanent record. Students can complete the withdrawal process by going to The Office of Student Development and Learning (Room A114). More information on refund and withdrawal dates can be found on the college website. (http://www.carrollcc.edu/courses/credit/academiccal/default.asp)

* **Code of Academic Integrity and College Policies:**

Carroll Community College has adopted a Code of Integrity, as part of College Policies, to foster and promote a sense of respect and consideration of others, and to uphold high standards of academic honesty and social conduct (see the College Catalog). Cheating and plagiarism are serious offenses and will not be tolerated. It is expected that students complete their own work unless collaboration is expressly permitted by the instructor.

Students may be asked to sign a pledge on all exams they take and on all major papers they turn in. The signed pledge shall read: “I pledge that this work is entirely my own and that I have neither given nor received any unauthorized help in doing it.” After the first exam or paper, students will be authorized to sign an abbreviated pledge. This abbreviated pledge, which symbolically represents the complete pledge, shall read: “Integrity Pledge.” Although students may refuse to sign a pledge, this refusal does not absolve them from adhering to the standards of the Code of Integrity.

* **Guidelines for Academic Integrity:**

Lab partners may work together and help each other in doing laboratory calculations and lab questions, but the verbatim copying of answers to lab questions is not acceptable.

Students may help each other solve homework problems, but turning in a homework assignment that is a verbatim copy of someone else’s work will be considered a violation.

Falsifying lab data to avoid doing some work or to obtain better results is cheating, but repeating the experiment to obtain better results is allowed. On some occasions, the instructor may allow the use of data obtained by another group.

The use of cell phones, iPods and any electronic device is absolutely prohibited during an exam. These should be turned off and out of sight.

**ASSIGNMENTS**

**Student Information Form**

Download and submit the Student Information Form. This form can be found in Blackboard under the Course Downloads heading. After completing this form, submit it to the Student Information Form in the Assignments area in Blackboard. The due date is listed in the Schedule below.

**Quizzes**

There is one quiz per chapter; each quiz will cover the content of the selected chapter. They will predominantly be multiple choice, fill-in-the-blank, matching, or true/false questions. The point value of each quiz is listed in the Grading information below. The due dates for the quizzes are provided in the Schedule below. The point values for the quizzes are listed in the Grading information below. The due dates for the quizzes are listed in the Schedule below. All quizzes are online in Blackboard and open book.

**Labs**

Labs will primarily be assigned problems to solve using coding techniques from the current chapter and prior chapters (course is cumulative in nature). Labs are intended to be more intensive than the quizzes as you will be using higher order thinking skills to read and understand the problems, design a solution, code the solution, and execute relevant Python code to accomplish the stated task(s) in the problem(s). You will be expected to comment extensively in your code on what you are doing (more to come about this) and you will be submitting your code as a part of the assignment. The points values of the Labs are listed in the Grading information below. There is an information sheet in Blackboard about the Labs that also includes the grading rubric. The due dates for the Labs are provided in the Schedule below.

**Discussions**

There are eight online discussion for which each student must post their own original answer. You will also be expected to respond to one other student’s post. All weekly discussions begin on a Monday and end on a Sunday. The initial discussion post is due by Friday (midnight) and the reply to at least one other student’s post is due by Sunday (midnight). Please see the Discussion Information in Blackboard.

**Final Exam**

The final exam is cumulative and includes all material covered in the class. Questions may include programming, analysis of code, and debugging of code.

**GRADING**

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| --- | --- | --- | --- |
| **Activity** | **Number** | **Individual Points** | **Total Points** |
| **Quizzes** | 10 | 15 | 150 |
| **Labs** | 12 | 50 | 600 |
| **Discussions** | 8 | 10 | 80 |
| **Final Exam** | 1 | 170 | 170 |
| **TOTAL** | | | **1,000** |
|  |  |  |  |

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| --- | --- |
| **Grading Scale** | |
| **A** | **900 - 1000 points** |
| **B+** | **870 - 899 points** |
| **B** | **800 - 869 points** |
| **C+** | **770 - 799 points** |
| **C** | **700 - 769 points** |
| **D+** | **670 - 699 points** |
| **D** | **600 - 669 points** |
| **F** | **0 - 599 points** |

**There is no extra credit work for this class.**

Scores for all the activities will be posted in the Blackboard account for this class as the work is graded during the semester. **All assignments must be submitted electronically via Blackboard before the start of the class on the day on which the work is listed as due.**

**CLASS SCHEDULE**

The due dates for all graded work are marked in **bold** in the schedule in the Assignments column.

Initial posts for all Discussion work are due by Friday of the Class Week listed. Please review the information in Blackboard about the Labs and Discussions.

| ***Class #*** | ***Date*** | ***Topic*** | ***Reading*** | ***Assignments*** |
| --- | --- | --- | --- | --- |
| 1 | August 28 | Course Requirements  Intro to Computers and Programming | Chapter 1 | Read the syllabus  **Student Information Form due Sept 3**  **Discussion: Introductions** |
| 2 | Sept 4 | **Labor Day College is closed on Sept 4**  Input, Process, and Output | Chapter 2 | **Quiz 1 (Chapter 1) due Sept 10**  **Lab 1 due Sept 10**  **Discussion 1** |
| 3 | Sept 11 | Decision Structures and Boolean Logic | Chapter 3 | **Quiz 2 (Chapter 2) due Sept 17**  **Lab 2 due Sept 17**  **Discussion 2** |
| 4 | Sept 18 | Repetition Structures | Chapter 4 | **Quiz 3 (Chapter 3) due Sept 24**  **Lab 3 due Sept 24**  **Discussion 3** |
| 5 | Sept 25 | Functions | Chapter 5 | **Quiz 4 (Chapter 4) due Oct 1**  **Lab 4 due Oct 1**  **Discussion 4** |
| 6 | Oct 2 | Files and Exceptions | Chapter 6 | **Quiz 5 (Chapter 5) due Oct 8**  **Lab 5 due Oct 8**  **Discussion 5** |
| 7 | Oct 9 | Lists and Tuples | Chapter 7 | **Quiz 6 (Chapter 6) due Oct 15**  **Lab 6 due Oct 15**  **Discussion 6** |
| 8 | Oct 16 | More About Strings | Chapter 8 | **Quiz 7 (Chapter 7) due Oct 22**  **Lab 7 due Oct 22** |
| 9 | Oct 23 | Dictionaries and Sets | Chapter 9 | **Quiz 8 (Chapter 8) due Oct 29**  **Lab 8 due Oct 29** |
| 10 | Oct 30 | Classes and Object-Oriented Programming | Chapter 10 | **Quiz 9 (Chapter 9) due Nov 5**  **Discussion 7** |
| 11 | Nov 6 | Classes and Object-Oriented Programming (Continued) |  | **Lab 9 due Nov 12**  **Discussion 8** |
| 12 | Nov 13 | Review |  | **Lab 10 due Nov 19** |
| 13 | Nov 20 | **Thanksgiving Holiday**  **College Closed Nov 22 - 26** |  |  |
| 14 | Nov 27 | Inheritance | Chapter 11 | **Quiz 10 (Chapter 10) due Dec 3 Lab 11 due Dec 3** |
| 15 | Dec 4 | Recursion | Chapter 12 | **Lab 12 due Dec 10** |
| 16 | Dec 11 | **Final Exam Week** |  | **Final Exam (Chapter 1 -12)** |

**REFUND AND WITHDRAWAL INFORMATION**

To qualify for a refund, students must officially drop a course(s) by submitting a Registration Schedule Change Form to the Records Office, or by mailing or faxing a signed written request to the Records Office.

Go to the appropriate refund policy, withdrawal dates and schedules.

Tel: 410-386-8440;

Fax: 410-386-8446;

E-mail: [records@carrollcc.edu](mailto:records@carrollcc.edu)

**CODE OF ACADEMIC INTEGRITY AND COLLEGE POLICIES**

Carroll Community College has adopted a Code of Integrity, as part of College Policies, to foster and promote a sense of respect and consideration of others, and to uphold high standards of academic honesty and social conduct (see the College Catalog). Cheating and plagiarism are serious offenses and will not be tolerated. It is expected that students complete their own work unless collaboration is expressly permitted by the instructor.

***Specific to this course:*** It is expected that students will submit his/her own code for individual labs unless the directions of the lab call for a “team” approach. Discovery of submitting someone else’s code will be considered a violation of the Integrity Code.

**Title IX - The College’s Gender-Based and Sexual Misconduct Policy and Procedures**

If you or someone you know has been a potential victim of gender-based or sexual misconduct and you would like to report the incident, please contact Title IX Coordinator for the College. The Title IX Coordinator may be reached at the Office of Compliance and Integrity, room A-117, by telephone at 410-386-8404, and by email at titleIX@carrollcc.edu. In case of an immediate emergency, please call 8123 on campus for Public Safety and Security or 911 for emergency assistance.

**CARE TEAM**

Carroll Community College is committed to and cares about all students. If you or someone you know is feeling overwhelmed, hopeless, depressed, and/or experiencing life stressors that are interfering with academic or personal success, supportive services are available.

If you are experiencing difficulty yourself or have an immediate concern about the behavior or safety of a student at Carroll Community College, help by making a referral to the College’s CARE Team. The CARE Team's purpose is to promote a safe and productive learning, living, and working environment by addressing the needs of students, faculty, and staff. If you or a classmate are in need of help, please submit a concern to the CARE Team at careteam@carrollcc.edu or call 410-386-8404. In case of an immediate emergency, please call 8123 on campus for Public Safety and Security or 911 for emergency assistance.

**DISABILITY SUPPORT SERVICES**

Carroll is committed to providing equal access to its programs, facilities and services for students with disabilities in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA). The college offers an array of support services and accommodations that are post-secondary appropriate and are coordinated by the office of Disability Support Services.

**INCLEMENT WEATHER INFORMATION**

Check the College website or listen to one of the radio or TV stations listed on the above website for announcements related to a closing. You may also call the College Inclement Weather Line at 410-386-8457 for closing information. We recommend to sign up for e2campus alerts. If no announcement is made, you may assume that the regular schedule is in effect.