**Columbus State Community College**

**CSCI Department, ITST Program**

**COURSE:** ITST 2252, Scripting Fundamentals

**CREDITS:** 2 **CLASS HOURS/WEEK:** WEB

**PREREQUISITES:** ITST-1101, passing with a minimum grade C or CSCI 1103

**DESCRIPTION OF COURSE**

This is an introductory level programming course geared at scripting for Computer Science, IT and Cyber students. Python is a dynamic object-oriented programming language that can be used for many kinds of software development. It offers strong support for integration with other languages and tools, comes with extensive standard libraries. Many Python programmers report substantial productivity gains and feel the language encourages the development of higher quality, more maintainable code.

**STUDENT LEARNING OUTCOMES**

1. Understanding of process of analyzing a problem and writing a program to resolve it.
2. Demonstrating use pseudocode and flow charts to design
3. Understanding of constants and variables in programming
4. Understanding of different data types
5. Understanding of control structures in programming
6. Understanding of functions, methods, modules, and classes
7. Basic understanding of object-oriented programming
8. Demonstrating the ability to create a program and debug the program

**PROGRAM GOALS**

Critical Thinking Time Management Effective Communication

Accountability and Ethics

**COURSE MATERIALS/EQUIPMENT REQUIRED**

* Raspberry Pi 3 or 4, Model B or B+
  + Pi 4 will require HDMI Micro Adapter
* Case for the Pi. Recommend a case with heatsinks.
* NOOBS pre-loaded micro SD card [16GB min] and any necessary peripherals.
* To use your Pi at home [you may already have this equipment]
  + Monitor or TV – with HDMI port.  If you don’t have an HDMI port, there are adapters.
  + HDMI Cable, USB Keyboard and Mouse

**Note**: This is a *WEB* class, there are expectations outside of the classroom, some will require the Pi. There are no open labs on campus to support the Pi.

**TEXTBOOK, MANUALS, REFERENCES, AND OTHER READINGS**

Materials provided by the Department and or are available on Blackboard. Book will be provided.

**Required Technology Skills:**

* You should be comfortable using a mouse, keyboard, and modern web browser to navigate and explore a web site.
* You should be able to check, write, and send email with attachments using Columbus State's Student Mail system (Office 365)
* You should be comfortable navigating a Blackboard course, including reviewing content and submitting assignments.
* You should be comfortable with participating in a discussion board from a student perspective (see: [Student Blackboard Orientation](https://online.cscc.edu/blackboard/training/) for a refresher).

**GENERAL INSTRUCTIONAL METHODS**

Labs

Lecture

Classroom Discussions

Group Exercises

Demonstrations

Projects

Hands-on Activities

Quizzes

**ASSESSMENT**

Columbus State Community College is committed to assessment (measurement) of student achievement of academic outcomes. This process addresses the issues of what you need to learn in your program of study and if you are learning what you need to learn. The assessment program at Columbus State has four specific and interrelated purposes: (1) to improve student academic achievements; (2) to improve teaching strategies; (3) to document successes and identify opportunities for program improvement; (4) to provide evidence for institutional effectiveness. In class you are assessed and graded on your achievement of the outcomes for this course. You may also be required to participate in broader assessment activities.

**STANDARDS AND METHODS FOR EVALUATION**

**Quizzes**— Within the Quiz, you are given a new random set of questions pertaining to the material in the lesson. You will only have one attempt to complete the quiz and it is timed - so while I cannot stop you from using your readings, the time limit will reward those who have truly read the lesson and completed the exercises. Check the course calendar for quiz due dates. No late quizzes are accepted.

***Please note:*** you may come across some fill-in-the-blank questions in the Quiz. Blackboard may mark your answers as wrong depending on which words you use, how you spell them, and whether you capitalize them or not. Never fear. I manually review each fill-in-the-blank question and give credit where credit is due. If you have any questions about any question was graded, please let me know!

**Discussion Board** – See Blackboard for expectations, rubric and requirements. As with all other assignments, no late submissions accepted.

**Assignments [Labs and Homework]** — The **Lab** will consist of one or two coding exercises found at the end of your textbook's chapter or distributed by the instructor. These exercises are to be completed by you and you alone. No discussion of these exercises is permitted in the Group Activities discussion board.

* Students will complete a hands-on lab during most class meetings.
* You must be present in class to hear and participate in the Lecture portion of the class to complete the lab.  Students who miss the class or come to the class late and miss all or most of the Lecture portion of the class, will NOT be able to complete the Lab for credit.
* If you do not completely submit the assignment in Blackboard, i.e. neglect to click the submit button, you will not receive credit.
* Assignments will not be accepted via e-mail.  They must be submitted in the manner requested to receive credit.  No late assignments will be accepted, unless arrangements have been made with the Instructor, prior to that class / lesson.
* An important part of the course is learning about file and directory structure.  Be sure to have the correct location of the file(s) being submitted BEFORE you attempt the submission.
* The assignments only accept one submission per assignment.  Therefore, it is very important that you are submitting your file(s) to the correct assignment link in blackboard.  Also make sure the file is legible and in the requested format.
* Assignments uploaded in the incorrect format will not be accepted.
* There are no make-up Labs, Projects, Quizzes or Assignments for this class.

**Attendance Policy:**

Attendance is required in this course and will be factored into final grade. Attendance is measured by the class participation within discussion board and Unit assignments due each week, as well as the participation in the group activities and unit challenges. It is expected that these assignments be completed in the time frame provided. **Students are not allowed to work on previous week assignments after the due date.**

**Late Work Policy:**

Once a due date has past, students may not go back and complete unfinished work (even if it is 1 minute past the deadline). Late assessments and activities will not be accepted for a grade.

**GRADING SCALE [*refer to Blackboard Gradebook total Point Value data*]**

**Note: Refer to Blackboard for the latest information on points**

| **Evaluation:** | | **Grading Scale** | |
| --- | --- | --- | --- |
| Introduction (5 total points) | = 1.7% | 100-90 | = A |
| Lesson Challenges (70 total points) | = 23.3% | 80-89 | = B |
| Group Activities (70 total points) | = 23.3% | 70-79 | = C |
| Quizzes (35 total points) | = 11.7% | 65-69 | = D |
| Labs (70 total points) | = 23.3% | 0-64 | = F |
| Final Exam/Exercise (50 total points) | = 16.7% |  |  |
| **Total (300 points)** | **= 100%** |  |  |

**Communication Policy:**

**Contacting Me:** you may contact me through email.

I pledge to try to:

* Access the Blackboard course at least three times per week to check on progress and provide guidance
* Respond to email and postings within 2 business days
* Post grades within 4 business days of their due date, unless advanced notice is provided

You should:

* Check your email daily
* Submit all assignments and projects on time
* Use full and complete sentences when sending email or contributing to the discussion boards (no textspeak!)
* Contact your instructor **immediately** if you have any concerns or problems

**Technology Disruption Policy:**

Technology isn't perfect: hardware fails, servers go down, internet access is lost, software crashes. Inevitably everyone experiences some sort of technology failure. **These are not considered emergencies. Technology issues are not a normal excuse for late work.**  Here are ways you can protect yourself from technology failures:

* Plan ahead - avoid waiting to the last minute
* Frequently save your work and regularly back up your files
* Work with different versions (sketch, draft, final)
* Practice "safe" computing (keep virus software up-to-day, work on a secure network)

**If you do experience a technology failure and need help, you can contact the**[**IT Support Center**](http://www.cscc.edu/services/5050/)**.**

# Student Responsibilities

**General**

* Read and understand this syllabus. Special circumstances may require that this Syllabus be changed. If this happens, you will be notified through an Announcement and/or email and the changes will becomes a part of the Syllabus.
* Log in regularly and participate in the activities. Success in this course requires that everyone participates to not only learn the material but share your experience and ideas with everyone in the class.
* Complete the work on time. Late assessments and activities will NOT be accepted.

**Respect for Others**

Please use common courtesy in class. This means avoiding use of inappropriate language and not expressing hostility toward others. Violation of this policy may mean removal from the course in accordance with the Academic Conduct Policy 7-11 and the Student Code of Conduct Policy No 7-12.

**E-Mail**

All students are given a CSCC student e-mail account. Time sensitive communication and information about the class will be sent out by the Instructor via email to the student’s CSCC account, as necessary. Use your CSCC student account when communicating with the Instructor and include the course name in the subject line.

This is formal communication between yourself and your Instructor and is considered formal business communication. E-*mails will contain proper grammar, punctuation, salutation and a subject line*. E-Mails received from non-CSCC accounts without a subject line referencing the class section; using improper grammar and punctuation; textspeak; or a salutation, will not be responded too.

**Inappropriate Use of Electronic Devices**

Please be mindful of other’s rights to hear and learn in the classroom. Keeping that in mind, please do not use cell phones, beepers, music players or games during class time. If you have an emergency and must take calls during class, please be respectful and step outside to handle those situations. Please remember ***turn off the ringer and all music*** when entering the classroom. ***Texting is not allowed in the classroom during class time***.

**Lab PC Use during Classroom Time**

The PC Monitors will be turned off at the start of class and during lectures unless otherwise directed. The PC’s will only be used for labs and other course related assignments. In class labs will be completed on the lab PC’s or Pi’s.

*Columbus State Community College required College Syllabus Statements on College Policies and Student Support Services can be found at*[*www.cscc.edu/syllabus*](http://www.cscc.edu/syllabus) *or on the College website Quick Links “Syllabus Statements”.*