

**Computer Science**  
**Beginning Programming: Python - CSCI 110 – 001**  
**Summer 2024**  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Instructor and Communication Information**

|  |  |
| --- | --- |
| Instructor | John Kull, CCNA |
|  |  |
| Office | Virtual |
| Phone | 618-980-4568  Please leave your name, complete phone number, course number or title they you are calling about, and information needed. I’ll do my best to return your call or text ASAP. |
| Email | jkull@coloradomesa.edu |
| Office Hours | Since this class is virtual my office hours can be almost anytime. We can meet via email, zoom, text, phone call or in person. Please give me at least a 24 hour notice if you wish to meet in person. |
| Communications Policy | Primary Communication in this course will be via your CMU email account. Students are required to use their CMU email accounts, and not personal email accounts. Please include the title of the course and section number in the subject line (example: ENGL 101-002). Check your email daily throughout the semester. I will respond within 48 hours."  In addition to email you may text or call me if you have an urgent issue and I will do my best to respond ASAP. |
| Assignment Grading and Feedback | The instructor will attempt to return grades and feedback on your assignments within 5 business days after the due date.  If it is determined that grading will take longer than 5 business days, the instructor will post an announcement in D2L. Individual feedback for all assignments will be given and available in D2L.  Questions regarding assignments may be made via email, and the instructor will respond within 48 hours. |

**Course Information**

|  |  |
| --- | --- |
| Course Title | CSCI 110 Beginning Programming: Python, Section 10192 |
| Class Time | On line |
| Classroom | On Line |
| Prerequisites | Familiarity with a computer system |
| General Education Requirements | CSCI 110 is required for AS and BS in Computer Science |
| Drop Date | 2/6/24 |
| Credit Hours | 3 credit hours |
| Lecture Hours | Plan to spend 2 - 4 hours per week on reading lecture materials |
| Lab Hours | Plan to spend 1 - 2 hours per week on lab work |
| Other Hours | Additional time will be needed to complete exams |

**Course Catalog Description**  
This course will provide a gentle introduction to programming using Python for students who have no prior background and knowledge in programming. The objective of this course is to provide students with a basic knowledge of application development and problem-solving using Python programming language. The course will especially focus on planning and organizing programs, as well as the grammar of Python programming language.

**Required Text and Supplies**  
***1. How to Think Like a Computer Scientist – Learning with Python 3 by Peter Wentworth et al.***

[*http://openbookproject.net/thinkcs/python/english3e/index.html*](http://openbookproject.net/thinkcs/python/english3e/index.html)

**Lesson/Instructional Materials**

Textbook, PowerPoint slides, notes, PDF, website resources, etc. will be provided when necessary.

**Program Learning Outcomes**  
CSCI 110 helps students meet these Student Learning Objectives for the AS in Computer Science and the BS in Computer Science

Associate Level Students will be able to:

* Write programs in a general-purpose programming language
* Develop a software solution to a problem given a technical specification

Baccalaureate Level Students will be able to:

* Write programs in multiple programming languages, and be able to translate concepts between languages.
* Develop the technical specification, and develop, design and test a software solution for a given problem.
* Analyze and measure competing hardware and software components and defend a choice for a given situation.

**Student Learning Outcomes**   
By the end of the semester, the student will be able to:

* Read and write basic Python programs.
* Use foundational programming concepts: Variables, IO, Loops, Conditionals, Math, Strings, List, etc.
* Use Git repository to manage source codes.
* Write algorithms and test them using basic data structures.
* Read data from text files and write data to text files.

**Time Commitment**  
An undergraduate student should expect to spend a minimum of two hours outside the classroom for every hour in the classroom on this course. The outside hours may vary depending on the number of credit hours or type of course. More details are available from the faculty member or department office and in CMU’s Curriculum Policies and Procedures Manual.”

**Methods of Evaluation/Grading Policy**  
This WILL NOT be a self paced course. Exams, labs and discussion posts will all need to be completed by the due dates. Use the Course Schedule and the Table of Contents in D2L as your guide for this course. Weekly assignments and any due dates will be posted there. Bi-weekly discussion posts will assist you in engaging with other students as you discuss topics related to the weekly lessons. The discussion posts will be completed within D2L.

Each week on Sunday you will receive an email from me reminding you what we will cover and pointing you to the material in D2L.

|  |  |
| --- | --- |
| **Grade Items** | **Percent (or points if not using weighted categories) of Final Grade** |
| Final Project | 30% |
| Quizzes | 30% |
| Assignments | 40% |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **GRADING** | **SCALE** |
| A | 90 -100% |
| B | 80 - 89% |
| C | 70 -79% |
| D | 60 - 69% |
| F | Under 60% |

**Assignments**  
Several homework will be assigned throughout the semester. Assignments will be turned in using GitHub repository.

**AI Policy**

Learning to use AI tools such as ChatGPT, GitHub CoPilot is an emerging skill like finding relevant information from search engines. However, be aware of the limits of those tools:

* If you provide minimum effort prompts on ChatGPT e.g., you will get low quality results. You will need to refine your prompts to get good outcomes. This will take work.
* Don’t trust anything AI tools provide. If they give numbers or facts as result, assume they are wrong unless you either know the answer or can check in with another source. You will be responsible for any errors or omission provided by the tool. It works best for topics you understand.
* AI is a tool, but one that you need to acknowledge that you’re using. Please include a paragraph at the end of an assignment that uses AI explaining what you used the AI for and what prompts you used to get the results. **Failure to do so is in violation of academic honesty policies.**
* Be thoughtful about when this tool is useful. Don’t use it if it isn’t appropriate for the case or circumstance or just not sure whether you should be using them to complete the assignments.

### Late Submissions

As stated above - late assignments of any type will have 10 points deducted per week that they are late.

**Testing Statement**

All quizzes are within the D2L and located under assessments. Quizzes can only be taken once. Exams consist of a 20 questions test with 120 minutes to complete the test.

**Supplemental Help**  
In coordination with Educational Access Services, reasonable accommodations will be provided for qualified students with disabilities. Students should contact **Educational Access Services** at 970-248-1856 or Houston Hall, Suite 108 as soon as possible. Please visit <https://www.coloradomesa.edu/educational-access> for additional information. If you wish to discuss academic accommodations, please contact me as soon as possible.

**Attendance Policy**  
Since the class is on line your "attendance" is completing the work.

**Course Correspondence**  
Primary Communication in this course will be via your CMU email account. Students are required to use their CMU email accounts, and not personal email accounts. Please include the title of the course and section number in the subject line (example: ENGL 101-002). Check your email daily throughout the semester. I will respond within 48 hours."

In addition to email you may text or call me if you have an urgent issue and I will do my best to respond ASAP.

**Expectations of Students**

Since this class is 100% online I expect students to follow the rules of Netiquette as outlined below.

**Plagiarism and Academic Integrity**Academic dishonesty is the intentional act of fraud, in which an individual seeks to claim credit for the work and efforts of another or uses unauthorized material or fabricated information in any academic exercise. Academic dishonesty also includes, but is not limited to: (1) Forgery/fabrication/falsification/plagiarism of academic documents; (2) Intentionally impeding or damaging the academic work of others; (3) Assisting others in acts of academic dishonesty; (4) Cheating in the classroom; (5) Unauthorized attendance; (6) Multiple submissions; and (7) Unauthorized collaboration. Any academic misconduct may be reported to the Department Head and Office of Academic Affairs and may result in a failing grade, suspension, or dismissal.

These policies are outlined at:

[Student Code of Conduct and Conduct System](http://www.coloradomesa.edu/student-services/documents/MaverickGuide.pdf" \l "page=82)

**Netiquette**“Netiquette” refers to the etiquette by which you should abide when using online services for your classes and campus communications. This includes email, social media, online chat, blogs, online discussions or message boards, instant messages, etc. Although you are participating in course activities and using course materials online, the [CMU Student Code of Conduct](http://www.coloradomesa.edu/studentservices/conduct.html) still applies. Online participants are expected to behave in a respectful manner that is supportive to other learners, participants, and faculty.

Online behavior should foster an environment that is productive and thoughtful. Netiquette provides guidelines for facilitating this positive atmosphere. Some basic principles of netiquette include:

* **Be respectful.** Remember that you are communicating with actual people. Be courteous and show respect, even if you have differences of opinion. Remember to treat others as you’d like to be treated. Good manners apply online as well as in the traditional classroom.
* **Think before you post.** Follow posting directions and examples. Be aware of who may be able to view your posting, and how your post may be interpreted. Try to maintain a fair and objective tone.
* **Stay on topic.** Make sure your communication is related to the subject and does not wander off-topic. Ask questions that are appropriate and relevant to the topic. Keep academic discussions free of “chit-chat”.
* **Write clearly.** Even though the online environment may seem more informal than your face-to-face class, you are still in an academic course and mature communication is expected. Correct spelling and grammar are required. Proper sentence structure and punctuation should be used. Avoid abbreviations and “text speak.”
* **Use appropriate language and style.** Profanity or offensive wording is not acceptable. ALL CAPS and repeated punctuation (???? or !!!!) is considered rude and should be avoided. While it is okay to have robust discussions and differences of opinion, avoid inflammatory wording ‘flaming’ that might start arguments. To disagree, use language that encourages intelligent discourse and discussion. Ignore statements by others that appear inflammatory.
* **Be considerate of others.** Do not make derogatory, condescending, or harassing remarks. Communication should be well-intentioned and well-articulated. It should foster a positive learning environment. Be aware of how sarcasm may be misinterpreted by your readers. Bullying, threatening, or abusive language will not be tolerated.
* **Allow for misunderstandings.** Keep in mind that writing can often convey the incorrect tone or intention. Make allowances for unintended rudeness or misunderstanding.
* **Cite your sources.** If you post work that is not your own or contains work that is not your own, be sure to reference your sources.
* **When in doubt, do not send or post.**

**Technology & Technology Skill Requirements**You will need basic computer skills and should be comfortable using a word processing program, browsing for files, and copying and pasting between programs. You will need a computer that connects to the Internet. Your username and password are required for access. If you do not own a computer or if your computer malfunctions during the term, you will be expected to identify a computer to use. Technology issues are not an excuse for missed or late work.

Colorado Mesa University strongly prefers students use the following technology minimums: DSL/Cable modem and high-speed Internet connection, Microsoft Windows XP or later, Microsoft Office 2003 or later, and Java Runtime Environment 7.

You will need access to a PC or MAC computer with Internet access to complete required lessons as well as have access to Mavzone and D2L.

**Technical Help**If you experience a technical problem, call the Help Desk at (970) 249-2111 to receive technical support in the following areas:

* Usernames and passwords
* Desire2Learn
* MavZone
* Microsoft Office products
* Connecting to the wireless network
* Desktop computer hardware installation and troubleshooting
* Desktop software installation and troubleshooting
* Network file storage

For more information, visit the CMU Help Desk website at: <http://coloradomesa.edu/it/helpdesk.html>

**Withdrawal Statement**Regular class attendance is expected. CMU is required by law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through other funding sources. CMU is responsible for identifying students who have not attended or logged into a class for which they are registered. At the conclusion of the first week of a semester, instructors will report any registered students who have "Never Attended" a class so that those reported students will be administratively withdrawn from that class. However, it is the student's responsibility to withdraw, using the appropriate CMU form, from any class which she/he is no longer attending or risk receiving a failing grade in that class. Student's wishing to withdraw must complete and submit the appropriate CMU form by the established withdrawal deadline.

If you are a concurrent student, please see Student Services for a different form for withdrawal.

**General Student Services**

* **Educational Access Services**: In coordination with Educational Access Services, reasonable accommodations will be provided for qualified students with disabilities. Students should contact Educational Access Services at 970-248-1856 or Houston Hall, Suite 108 as soon as possible. Please visit <https://www.coloradomesa.edu/educational-access> for additional information.

**Please see the information below.**

* **Safety Policy**: If the course has specific safety requirements, dress code, eye ware, or labs rules, describe

them here.

* The **Tutorial Learning Center** (TLC) is a **FREE** academic service for all Colorado Mesa University students. Tutors are available on a walk-in basis for many courses. Do you have a quick question? Do you need homework clarification or feedback on a paper? Are you reviewing for a test? Help is available at the TLC!
* At the main campus, come to Houston Hall 113 to meet with one of our friendly peer tutors. We are open on Monday through Thursday from 8am-6pm and Fridays from 8am-5pm. We are also open Sundays from 1pm-6pm! Tutoring at branch campuses and distance tutoring is also available. Check out the website for schedules and locations at [www.coloradomesa.edu/tutoring](http://www.coloradomesa.edu/tutoring) or call (970) 248-1392 with any questions.
* **Research Assistance at the Tomlinson Library:**

CMU’s professional librarians are an excellent resource for helping you to find the best research to support your academic work, evaluate articles and electronic information, and cite the articles and images that you use in your papers. We are here for you!

Find us**:** in the Library at the Research Help Desk Mon-Thurs 8am-9pm, Fri 8am-5pm, Sat 10am-5pm, and Sun 1-9pm; via online chat 24/7 at [coloradomesa.edu/library](http://coloradomesa.edu/library); by email at [library@coloradomesa.edu](mailto:library@coloradomesa.edu); or by calling 970.248.1860.

* **Student Services**: The Office of Student Services works to support CMU students in all aspects of college life, by offering a vast array of services, resources and programs that make each student's time at Colorado Mesa University as exciting and successful as possible. Student Services works collaboratively with faculty, students, and staff to create a campus community that fosters the growth of students as strong individuals and productive citizens. To learn more, go to <http://www.coloradomesa.edu/studentservices>.
* **Financial Aid**: Financial aid staff is dedicated to assisting you in sorting through the various forms of student financial aid. We believe that by helping you take advantage of a variety of available resources, you will find an education at Colorado Mesa University is attainable. Our office is located in the lower level of Lowell Heiny Hall, Room 116. Our phone number is (970)248-1396, or you may contact us via email at [financialaid@coloradomesa.edu](mailto:financialaid@coloradomesa.edu)
* **Advising Center:**  Advisors can assist students with course selection and registration, major exploration, and identifying strategies for academic success. The Advising Center is committed to promoting academic success and in facilitating students to attain their educational goals. We are located in Lowell Heiny Hall, on the lower level, room 127. Our phone number is (970)248-1177, or toll free at 1-800-982-6372 (option #7 or extension 1177). Our FAX number is (970)248-1267. You can also reach us via email at [advising@coloradomesa.edu](mailto:advising@coloradomesa.edu) Appointments are scheduled from 9:00 to 4:00, Monday through Friday. Please call a week or two in advance of your desired appointment date to schedule. Bring your picture ID, as failure to do so may result in a rescheduled appointment.
* **Accounting and Financial Services:**  The Accounting and Financial Services Office encompasses the Office of Student Accounts, Financial Counseling, Student Payroll, and Accounts Payable. Our staff can assist students with navigating their student account, billing statement, financial counseling, payment plan options, and on-campus employment.  Accounting and Financial Services is located in the lower level of Lowell Heiny Hall. Our staff is available to assist you Monday through Friday from 8:00 am to 5:00 pm, MST.  Our phone number is (970)248-1567, our FAX number is (970)248-1136, or you may contact us via email at [studentaccounts@coloradomesa.edu](mailto:studentaccounts@coloradomesa.edu)

**Course Schedule**   
*Each week will consist of reading material, and or quizzes relating to previous weeks material, and or a discussion post. See below for a week-by-week breakdown.*

***All assignments are due one week from the posted date below except quizzes and labs are due two weeks after listed. EXCEPTIONS – the final week 15 assignments and the final exam are due by the end of the semester - 5/17/24***

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Date** | **Chapter – Subject – Topic** | **Assignments Due** |
| 1 | Begins 5/28 | Introduction and Goals, Tool Setup  Bash, Git, GitHub setup | Introduction and Goals, Tool Setup  Watch Week 1 Videos in D2L    Read Chapter 1 in How to Think like a Computer Scientist:    The way of the program <http://openbookproject.net/thinkcs/python/english3e/way_of_the_program.html>  Install Python from <https://www.python.org>  Read the w3 schools git tutorial - <https://www.w3schools.com/git/>    Watch the following video - <https://www.youtube.com/watch?v=tRZGeaHPoaw&t=2089s>  Download Git for free from the following website: <https://www.git-scm.com/>    Set up a git-hub account for your final project - <https://github.com/>    Invite me to you GitHub repository - [jkull@coloradomesa.edu](mailto:jkull@coloradomesa.edu) |
| 2 | Begins 5/3/24 | Variables Expressions and Statements  Python Turtle Graphics | Read Chapter 2 - [Variables, expressions and statements, in How to Think Like a Computer Scientist: Learning with Python 3](https://openbookproject.net/thinkcs/python/english3e/variables_expressions_statements.html)  Section 2.14 Problem 1  Read Chapter 3 in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/functions.html>    Watch related videos on chapter 2 & 3 and homework assignments located in the content section of Week 2    Number 11 or 12 (you pick) in section 3.8 Exercises |
| 3 | Begins 5/10/24 | Functions  Conditionals | Read Chapter 4 in how to think like a computer scientist - <https://openbookproject.net/thinkcs/python/english3e/functions.html>  Homework assignment - Number 2 in section 4.9  Complete Quiz #1 Chapter 1 – 3  Read Chapter 5 Conditionals in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/conditionals.html>  Homework assignment - Number 1 in Section 5.14  Extra Credit - Number 8 in section 5.14 |
| 4 | Begins 5/17 | Fruitful Functions, Unit testing  Iteration – For / while | Read Chapter 6 in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/fruitful_functions.html>  Number 7 in Section 6.9  Complete Quiz #2 Chapter 4 – 6  Read Chapter 7 in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/iteration.html>  Number 9 in section 7.26 |
| 5 | Begins 5/17/24 | Strings &  Lists | Read Chapter 8 in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/strings.html>  Number 5 in Section 8.19  Week 9 Discussion Post  Read Chapter 11 in how to think like a computer scientist - <https://openbookproject.net/thinkcs/python/english3e/lists.html>  Number 10 in Section 11.22  Quiz # 3 - Chapters 7, 8, 11 |
| 6 | Begins 4/8/24  Begins 4/15/24 | Working with Files – I/O  Dictionaries | Read Chapter 13 in how to think like a computer scientist - <http://openbookproject.net/thinkcs/python/english3e/files.html>  Number 1 in section 13.10  Read Chapter 20 - Dictionaries, in How to Think Like a Computer Scientist: Learning with Python 3  <http://openbookproject.net/thinkcs/python/english3e/dictionaries.html>  Problem 20.8 problem 3 |
| 7 | Begins 5/6/24 | Exceptions / Final Project Review | Read Chapter 19 - Exceptions, in How to Think Like a Computer Scientist: Learning with Python 3 <http://openbookproject.net/thinkcs/python/english3e/exceptions.html> Problem 19.6 Problem 1 |
| 8 | Begins  5/13/24 | Finals Week | Final Project Due July 20/24 |