

*CS 152 Syllabus*

***Instructors Information***

Instructor: Marcia Moraes, Ph.D

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Office Hours: 8:30-9:30 am MW on CSB456 and Teams

By appointment – send me a private message on Teams to schedule a time to talk

***Technical Support***

Need technical assistance with your Canvas course? Try the following:

* Visit the [Canvas Information and Resources](https://canvas.colostate.edu/) for guides and videos
* Visit [Central I.T. Technical Support Helpdesk](https://www.acns.colostate.edu/technical-support-services/) for technical support
* Call 970-491-7276
* Email: help@colostate.edu

***Course Overview***

CS 152 Python for STEM is intended as the first programming course for students with no prior programming experience to learn the basics of programming using the Python 3 language. This 2-credit course is ideal for students seeking an introduction to Computer Science as a possible major or minor, and students in other majors that wish to learn some basic programming skills for use in their field.

***Course Outcomes***

Upon completion of this course, students should be able to:

* Write small programs in the Python programming language.
* Use appropriate data types to represent and manipulate information.
* Use logic and functions to implement algorithms that solve problems.
* Interact with external files to obtain and record information.
* Use libraries of existing Python functions and create new function libraries.

***Course Schedule***

|  |  |
| --- | --- |
| Week | Content |
| 1 | Introduction to Variables, Expressions, and Statements |
| 2 | Functions, Conditional, and Loops |
| 3 | IDE and Exam 1 – Coding Exam and Canvas Exam |
| 4 | More Operations, Complex Conditionals, Lists, and Tuples |
| 5 | For Loops, File Reading, Strings |
| 6 | Functions Review, More Loops, and Exam 2 – Coding Exam and Canvas Exam |
| 7 | Dictionaries and Introduction to Recursion |
| 8 | More Recursion, Object Oriented Programming, and Final Exam – Coding Exam and Canvas Exam |

***Textbook/Materials***

zyBooks and online materials provided on Canvas.

***Grading***

As a student enrolled in this course, one of your responsibilities is to submit course work by the due dates listed in the Course Schedule.

It is my commitment to you to respond individually to the work you submit in this class and to return your work in a timely manner.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Assignment\*** |  | **Grade Percent %** |
|  | |
| Formative – Readings | | Not Graded | |
| Formative – Labs | | 20 | |
| Formative – Knowledge Checks (RPAs) | | 20 | |
| Summative – Attendance, Reflections, U-Behavior | | 10 | |
| Summative – Coding Exams | | 25 | |
| Summative – Canvas Exams | | 25 | |
| **Total:** | | **100** | |

\*Keep a copy of all work created for the course, including work submitted through Canvas.

***Assignment Details***

Our course is composed of “Formative” and “Summative” assignments. Formative assignments focus on mastering the content and can be redone until the final due date. Summative assignments focus on showing what you have learned up to a certain point in our course, must be done by the due date and **cannot** be redone.

1. Formative - Readings
   * Although readings are not graded in this course they are a fundamental part of your learning process. You **must** do your readings one day before the class that it is related with. Our course is based on the flipped learning pedagogy, meaning that you will need to be done with your readings to be capable of participating in class discussions and activities.
2. Formative – Labs
   * Labs provide an opportunity for you to practice your coding skills. You will do your lab assignments after you do your readings and lectures.
   * After the defined due date, you will have a two weeks window period to redo most of your labs. I said most because at the end of the semester you may have a shorter period of time to finish those assignments after the original due date.
   * This is an individual assignment.
3. Formative – Knowledge Checks (RPAs)
   * Knowledge Checks or Retrieval Practice Activities (RPAs) are quizzes used as a learning tool aiming to improve your retention and learning of contents.
   * You can redo your RPAs until the end of the course and the highest score is kept.
   * You will have 10 attempts for each RPA during the course.
   * You should practice your RPAs in a spaced and mixed manner. Research has shown that students who practice that way have an improvement of one grade level.
   * Do not mass your practice taking your RPAs several times at the same day, this is not beneficial to your learning.
   * You should be practicing each RPA once a week in a mixed manner.
   * In addition to your RPA grade, you will be graded by the way you practice (more about this in the U-Behavior section), so do not mass your practice!
   * This is an individual assignment.
4. Summative – Attendance, Reflections, U-Behavior
   * Attendance
     + Will be done by in class activities, such as recall activities based on your readings and worksheets. We will have at least one activity per lecture. You need to come to lecture in order to have those points.
     + You will work individually or in groups to do your worksheets activities.
   * Reflections
     + You will have two reflections related to U-Behavior Activity.
     + This is an individual assignment.
   * U-Behavior Activity
     + You will be graded by the way you practice your RPAs.
     + U-Behavior is an app that you will access to visualize your practice behavior.
     + Access the U-Behavior rubric to have more information about how you are going to be graded for this assignment regarding your spacing and mixing practice behavior.
     + This is an individual assignment.
5. Summative – Coding Exams
   * You will have three coding exams which are practice coding activities.
   * This is an individual assignment.
6. Summative – Canvas Exams
   * You will have three canvas exams which are auto graded quizzes.
   * This is an individual assignment.

As you noticed, with the exception of the worksheets that are done during lecture, all the assignments are individual assignments. You cannot share your code with your classmates neither do group assignments. Those will be flagged as “plagiarism” by zybooks and all students involved will, at a minimum, have a grading penalty and will be reported to Student Conduct Services (read Academic Integrity Policy section of this document).

***Grading Description***

|  |
| --- |
| 90-100% = A |
| 80-89% = B |
| 70-79% = C |
| 60-69% = D |
| 0-59% = F |

***Participation Expectations***

You bring valuable life understanding and knowledge to this learning experience. We all learn when students in this class apply their practical experiences to the course content and research methods being studied. As such, it is important that you engage in the course material, complete assignments on time, do quality work and ask questions if directions or expectations are unclear.

***Academic Integrity Policy***

This course will adhere to the CSU Academic Integrity Policy as found on the Student' Responsibilities page of the **CSU General Catalog** and in the **Student Conduct Code.**

Academic integrity is conceptualized as doing and taking credit for one’s own work. Violations of the university’s academic integrity standards include, but are not limited to:

* Cheating—includes using unauthorized sources of information and providing or receiving unauthorized assistance on any form of academic work or engaging in any behavior specifically prohibited by the faculty member.
* Plagiarism—includes the copying of language, structure, ideas, or thoughts of another, and representing them as one’s own without proper acknowledgment.
* Unauthorized Possession or Disposition of Academic Materials—includes the unauthorized selling or purchasing of examinations or other academic work; stealing another student’s work; unauthorized entry to or use of material in a computer file; and using information from or possessing exams that an instructor did not authorize for release to students.
* Falsification—includes any untruth, either verbal or written, in one’s academic work.
* Facilitation—includes knowingly assisting another to commit an act of academic misconduct.

At a minimum, violations will result in a grading penalty in this course and a report to the Office of Conflict Resolution and Student Conduct Services. It is your responsibility to know the CS policy, read carefully the CS Academic Integrity Policies section available at <https://compsci.colostate.edu/policies-resources/>. Don’t hesitate to reach out to me if you have any question.

***CSU Honor Pledge***

Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, I will ask that you affirm the CSU Honor Pledge as part of completing your work in this course. While you will not be required to affirm the honor pledge, you will be asked to affirm the following statement at the start of your exams:

***"I have not given, received, or used any unauthorized assistance."***

***Universal Design for Learning/Accommodation of Needs***

I am committed to the principle of universal learning. This means that our classroom, our virtual spaces, our practices, and our interactions be as inclusive as possible. Mutual respect, civility, and the ability to listen and observe others carefully are crucial to universal learning.

If you are a student who will need accommodations in this class, please contact me to discuss your individual needs. Any accommodation must be discussed in a timely manner. A verifying memo from [The Student Disability Center](https://disabilitycenter.colostate.edu/) may be required before any accommodation is provided.

The Student Disability Center (SDC) has the authority to verify and confirm the eligibility of students with disabilities for the majority of accommodations. While some accommodations may be provided by other departments, a student is not automatically eligible for those accommodations unless their disability can be verified and the need for the accommodation confirmed, either through SDC or through acceptable means defined by the particular department. Faculty and staff may consult with the SDC staff whenever there is doubt as to the appropriateness of an accommodative request by a student with a disability.

The goal of SDC is to normalize disability as part of the culture of diversity at Colorado State University. The characteristic of having a disability simply provides the basis of the support that is available to students. The goal is to ensure students with disabilities have the opportunity to be as successful as they have the capability to be.

Support and services are offered to student with functional limitations due to visual, hearing, learning, or mobility disabilities as well as to students who have specific physical or mental health conditions due to epilepsy, diabetes, asthma, AIDS, psychiatric diagnoses, etc. Students who are temporarily disabled are also eligible for support and assistance.

Any student who is enrolled at CSU, and who self-identifies with SDC as having a disability, is eligible for support from SDC. Specific accommodations are determined individually for each student and must be supported by appropriate documentation and/or evaluation of needs consistent with a particular type of disability. SDC reserves the right to ask for any appropriate documentation of disability in order to determine a student's eligibility for accommodations as well as in support for specific accommodative requests. The accommodative process begins once a student meets with an accommodation’s specialist in the SDC.

***Privacy Title IX/Interpersonal Violence***

For the full statement regarding role and responsibilities about reporting harassment, sexual harassment, sexual misconduct, domestic violence, dating violence, stalking, and the retaliation policy please go to: [Office of Title IX and Gender Equity](https://titleix.colostate.edu/).

If you feel that your rights have been compromised at CSU, several resources are available to assist:

* Student Resolution Center, 501 W. Lake St, Suite A, Aggie Village, Walnut Hall, 491-7165
* Office of Equal Opportunity, 101 Student Services, 491-5836

A note about interpersonal violence: If you or someone you know has experienced sexual assault, relationship violence and/or stalking, know that you are not alone. As instructors, we are required by law to notify university officials about disclosures related to interpersonal violence. Confidential victim advocates are available 24 hours a day, 365 days a year to provide support related to the emotional, physical, physiological and legal aftermath of interpersonal violence. Contact the Victim Assistance Team at: 970-492-4242.

***Religious Observances***

CSU does not discriminate on the basis of religion. Reasonable accommodation should be made to allow individuals to observe their established religious holidays. Students seeking an exemption from attending class or completing assigned course work for a religious holiday will need to fill out the [Religious Accommodation Request Form](https://studentaffairs.colostate.edu/resource/religious-accommodation-request-form/) and turn it in to the Division of Student Affairs, located on the second level of the Administration building.

Once turned in, the Division of Student Affairs will review the request and contact the student accordingly. If approved, the student will receive a memo from the Dean of Students to give to their professor or course instructor.

Students are asked to turn in the request forms as soon as the conflict is noticed. Similarly, unanticipated conflicts requiring a religious observance, such as a death in the family, can also be reviewed.

***Undocumented Student Support***

Any CSU student who faces challenges or hardships due to their legal status in the United States and believes that it may impact their academic performance in this course is encouraged to visit [Student Support Services for Undocumented, DACA & ASSET](https://undocumented.colostate.edu/) for resources and support. Additionally, only if you feel comfortable, please notify your professor so they may pass along any additional resources they may possess.

Please note that this course may require you to use third-party tools (tools outside of the Canvas learning management system), such as Teams, Google Hangouts, and others. Some of these tools may collect and share information about their users. Because your privacy is important, you are encouraged to consult the privacy policies for any third-party tool in this course so that you are aware of how your information is collected, used, and shared.

***Third-party Tools/Privacy***

***Copyright – Course Materials***

Please do not share materials from this course in online, print, or other media. Course material is the property of the instructor who developed the course and Colorado State University.

Materials authored by third parties and used in the course are also subject to copyright protections. Posting course materials on external sites (commercial or not) violates both copyright law and the CSU Student Conduct Code. Students who share content without the instructors express permission, including with online sites that post materials to sell to other students, could face appropriate disciplinary or legal action.

***CSU Principles of Community***

**Inclusion:** We create and nurture inclusive environments and welcome, value and affirm all members of our community, including their various identities, skills, ideas, talents and contributions.

**Integrity:** We are accountable for our actions and will act ethically and honestly in all our interactions.

**Respect:** We honor the inherent dignity of all people within an environment where we are committed to freedom of expression, critical discourse, and the advancement of knowledge.

**Service:** We are responsible, individually and collectively, to give of our time, talents, and resources to promote the well-being of each other and the development of our local, regional, and global communities.

**Social Justice:** We have the right to be treated and the responsibility to treat others with fairness and equity, the duty to challenge prejudice, and to uphold the laws, policies and procedures that promote justice in all respects.

***Diversity and Inclusion***

The [webpage](https://inclusiveexcellence.colostate.edu/about/) of the Inclusive Excellence includes a comprehensive statement of CSU’s commitment to diversity and inclusion.

***Suggested Study Methods***

In order to be successful in our course you will need:

* Space—Establish a comfortable and well-organized physical workplace
* Time management skills—Set personal study and "classroom" time as you would do for a traditional course
* Organization skills — keep everything in a single location. Maintain electronic backups of all class materials
* Communication skills—Demonstrate a willingness to interact with your instructor and classmates through email, phone calls, discussion boards, and active participation in all class activities
* Initiative—Seek help from your instructor and classmates, ask questions as they arise
* Discipline—Pace yourself, complete all activities and assignments before the due date, follow through on all class requirements to completion

The more closely you adhere to the recommendations above the greater your chances of having a successful semester and a rewarding online experience.