Fundamentals of Programming

CS - 1400 003

Course Student Learning Outcomes

- Design, write, compile, test, debug and execute simple Python programs.
- Use sequential, selective, and iterative constructs to control program logic.
- Create, define, and invoke properly constructed methods.
- Use data structures to organize and manage collections of elements, including handling data in a tabular format.
- Use interpersonal skills in a dynamic group environment to design, implement and demonstrate a simple programming project.

Course Prerequisites

There are no prerequisites for this course; however, if you do not have any programming experience, you may consider registering for CS 1030 Foundations of Computing for an overview of Computer Science and Programming.

Engagement Plan

- I will respond to your canvas email within 24 hours M-F. I will offer feedback on manually graded assignments approximately 1 week after the due date. For the fastest response to questions or help, please text me.
- Occasionally, I will participate in the discussion forums with you to share my perspective and to offer some nuances of interpretation that may not be present in your textbook.
- You should use the Discussion board in Canvas to post questions or seek help, where we can learn from your peers (and faculty) on some of the more difficult units within the course.

Required Text or Materials

Title: Zybook: SLCCCS1400KoziatekFall2025

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Brief Description of Assignments/Exams

- Reading Assignments (Prep work) (25%): Weekly Prep work is available on Canvas and they are due by midnight. Prep work cannot be made up because the sole purpose is to ensure that students are prepared when they come to class.
- Labs (25%): Labs are a regular part of CSIS-1400 classes. Students work on their own computers (Let me know if you don't have a computer and we'll find a solution) Students are encouraged to collaborate and to look at each other's code to help and support each other. Labs allow for collaboration because they are intended to build a bridge between understanding a concept and being able to apply it independently (during assignments)
  Students are encouraged to complete their labs early on time because they help to prepare for assignments. Labs are accepted after the due date, up until the day before midterm or final. At which point the previous labs close.
- Programming Assignments (30%): Programming assignments are assigned on a regular basis - typically one every other week. The specific assignment, due date, and turn-in procedure are all managed through Canvas. Late work may be submitted up to one week following the due date (except for the last assignment, which is the team project), a 20% penalty will be assessed. Homework is not accepted more than one week after the due date.
  Important: Even though students are encouraged to discuss homework assignments with each other, they need to be programmed independently - except for assignments that are explicitly posted as team assignments.
  All the code in assignments needs to be original code from the student or imported code from the Java API (Links to an external site.).
- Exams (20%): A midterm exam and a final exam are given. If a student can't make the scheduled exam, the instructor must be notified in advance so that

arrangements can be made to take the exam another day. Without prior arrangements the exam can still be taken within a reasonable time, but a 20% penalty will be assessed.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Any Questions?	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
8/30/25	Academic Honesty	Quiz	5
8/30/25	Is Online/Hybrid Learning Right for Me?	Quiz	5
8/30/25	Quiz Orientation	Quiz	16
9/13/25	1.1 - 1.5	Assignment	77
9/13/25	1.12 zyLab Training: Basics	Assignment	3
9/13/25	1.15 LAB: Formatted output: Hello World!	Assignment	10
9/13/25	1.16 Lab: Formatted output: No Parking Sign	Assignment	10
9/13/25	1.6 - 1.11	Assignment	27
9/27/25	2.1 - 2.6	Assignment	111

Due Date	Assignment Name	Assignment Type	Points
9/27/25	2.14 LAB: Divide input integers	Assignment	10
9/27/25	2.15 LAB: Driving costs	Assignment	10
9/27/25	2.16 LAB: Expression for calories burned during workout	Assignment	10
9/27/25	2.17 LAB: Using math functions	Assignment	10
9/27/25	2.7 - 2.12	Assignment	77
9/27/25	Convert to dollars	Assignment	10
10/11/25	3.1 - 3.6	Assignment	121
10/11/25	3.12 LAB: List basics	Assignment	10
10/11/25	3.13 LAB: Set basics	Assignment	10
10/11/25	3.14 LAB: Input and formatted output: Right-facing arrow	Assignment	10
10/11/25	3.15 LAB: Phone number breakdown	Assignment	10
10/11/25	3.7 - 3.11	Assignment	31
10/11/25	Simple statistics	Assignment	10
10/25/25	4.1 - 4.6	Assignment	123
10/25/25	4.14 LAB: Smallest number	Assignment	10
10/25/25	4.15 LAB: Interstate highway numbers	Assignment	10
10/25/25	4.16 LAB: Seasons	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
10/25/25	4.17 LAB: Exact change	Assignment	10
10/25/25	4.18 LAB: Leap year	Assignment	10
10/25/25	4.7 - 4.13	Assignment	65
10/25/25	Golf scores	Assignment	10
10/25/25	Midterm: Speeding ticket	Assignment	10
11/8/25	5.1 - 5.6	Assignment	120
11/8/25	5.14 LAB: Convert to reverse binary	Assignment	10
11/8/25	5.15 LAB: Password modifier	Assignment	10
11/8/25	5.16 LAB: Output range with increment of 5	Assignment	10
11/8/25	5.17 LAB: Print string in reverse	Assignment	10
11/8/25	5.7 - 5.13	Assignment	44
11/8/25	Adjust values in a list by normalizing	Assignment	10
11/22/25	6.1 - 6.5	Assignment	83
11/22/25	6.12 - 6.17	Assignment	35
11/22/25	6.18 Lab training: Unit tests to evaluate your program	Assignment	10
11/22/25	6.19 LAB: Driving costs - functions	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
11/22/25	6.20 LAB: Step counter	Assignment	10
11/22/25	6.21 LAB: Convert to binary - functions	Assignment	10
11/22/25	6.6 - 6.11	Assignment	43
11/22/25	Swapping variables	Assignment	10
12/6/25	7.1 - 7.4	Assignment	63
12/6/25	7.5 LAB: Checker for integer string	Assignment	10
12/6/25	7.6 LAB: Name format	Assignment	10
12/6/25	7.7 LAB: Count characters	Assignment	10
12/6/25	7.8 LAB: Mad Lib - loops	Assignment	10
12/6/25	Remove all non-alpha characters	Assignment	10
12/11/25	8.17 LAB: Filter and sort a list	Assignment	10
12/11/25	8.18 LAB: Elements in a range	Assignment	10
12/11/25	8.19 LAB: Contact list	Assignment	10
12/11/25	8.6 - 8.12	Assignment	68
12/11/25	8.1 - 8.5	Assignment	60
12/11/25	8.13 - 8.15	Assignment	16
12/11/25	8.16 LAB: Varied amount of input data	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
12/11/25	Final Exam: Phone number string breakdown	Assignment	10

Grading Scale

Grading Scale	A 94% - 100%	A- 90% - 93%
B+ 87% - 89%	B 84% - 86%	B- 80% - 83%
C+ 77% - 79%	C 74% - 76%	C- 70% - 73%
D+ 67% - 69%	D 64% - 66%	D- 60% - 63%
E 59% and below		

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the Institutional Syllabus page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or

want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the Institutional Syllabus page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the Institutional Syllabus page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

SLCC Student Academic Calendar