

Object-Oriented Programming

CS - 1410 002

Course Student Learning Outcomes

- Implement classes with appropriate attributes and behaviors.
- Create a hierarchy of classes through inheritance, implement polymorphic behavior using methods and interfaces, and visualize classes and their relationships with Unified Modeling Language (UML) class diagrams.
- Implement and utilize generic methods and classes in a programming project to enhance code reusability, type safety, and demonstrate polymorphic behavior.
- Design and implement a Graphical User Interface.
- Manipulate data accessed through multiple I/O techniques, including reading from and writing to files, and implement object-oriented exception handling mechanisms.
- Use an automated testing framework to validate code functionality and incorporate doc comments to increase the readability of the code.
- Collaborate with team members to design, implement, and test an object-oriented computer program.
- Construct recursive methods that provide a specified functionality.

Engagement Plan

Example language:

- I will respond to email within 1 day. I will offer feedback on major assignments within 1 day. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.

- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Brief Description of Assignments/Exams

Assignments and Exams will mostly be coding based. The Final is a multiple choice style quiz but the primary objective of the class is to give the students practical experience in programming.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Bonus Points	Assignment	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Jamboree Reflection 15 XC	Assignment	0
2/19/25	Practice - Interfaces from Java API	Quiz	0
8/30/25	Academic Honesty	Quiz	6
8/30/25	Discussion - This Is Me	Discussion	8
8/30/25	Lab - Getting Started	Assignment	10
8/30/25	Programming Survey Study Group	Quiz	3

Due Date	Assignment Name	Assignment Type	Points
8/30/25	Quiz Orientation	Quiz	19
9/3/25	Lab - Doc Comments JAR	Assignment	10
9/3/25	Team Assignment - Partner	Assignment	5
9/3/25	Video & Quiz - Java Doc #1	Quiz	6
9/3/25	Video & Quiz - Java Doc #2	Quiz	2
9/3/25	Video & Quiz - Runnable JAR	Quiz	3
9/7/25	Review - 1400 Java Terms	Quiz	23
9/8/25	Lab - Text Manipulation	Assignment	10
9/8/25	Video & Quiz - Class String	Quiz	5
9/8/25	Video & Quiz - Class StringBuilder	Quiz	5
9/10/25	Lab - junit	Assignment	10
9/10/25	Video & Quiz - junit #1	Quiz	5
9/10/25	Video & Quiz - junit #2	Quiz	4
9/13/25	Assignment - Text Manipulation junit	Assignment	40
9/15/25	Lab - Recursion JUnit	Assignment	15

Due Date	Assignment Name	Assignment Type	Points
9/15/25	Video & Quiz - Recursion #1	Quiz	5
9/17/25	Module 01 Test	Quiz	50
9/22/25	Lab - Inheritance and Polymorphism_PLO-CS-1	Assignment	10
9/22/25	Video & Quiz - Inheritance Part 1	Quiz	5
9/22/25	Video & Quiz - Inheritance Part 1 Code	Quiz	3
9/22/25	Video & Quiz - Inheritance Part 2	Quiz	6
9/22/25	Video & Quiz - Inheritance Part 2 Code	Quiz	3
9/22/25	Video & Quiz - Polymorphism Part 1	Quiz	5
9/22/25	Video & Quiz - Polymorphism Part 2	Quiz	5
9/24/25	Lab - Abstract	Assignment	10
9/24/25	Video & Quiz - abstract final	Quiz	8
9/28/25	Assignment - Inheritance Polymorphism	Assignment	40

Due Date	Assignment Name	Assignment Type	Points
9/28/25	https://slcc.instructure.com/courses/599746/quizzes/1639254/edit#questions_tabCourse Survey	Quiz	5.5
10/1/25	Discussions - Class Relationships_PLO-CS-4	Discussion	10
10/1/25	Video & Quiz - Interfaces Part 2	Quiz	12
10/1/25	Video & Quiz - Interfaces Part 1	Quiz	4
10/1/25	Video & Quiz - UML Associations and Multiplicity	Quiz	9
10/1/25	Lab - Interface	Assignment	10
10/5/25	Assignment - Interface	Assignment	40
10/6/25	Video & Quiz - Object Class_PLO-CS-1	Quiz	6
10/13/25	Lab - Getting Started With WindowBuilder	Assignment	5
10/13/25	Lab - Intro to GUI	Assignment	10
10/13/25	Module 02 Test	Quiz	50
10/15/25	Video & Quiz - Intro to GUI and Dialogs	Quiz	3
10/15/25	Video & Quiz - Intro to Swing Components	Quiz	8

Due Date	Assignment Name	Assignment Type	Points
10/15/25	Extra Credit: Design a Game	Assignment	0
10/27/25	Lab - Dice	Assignment	10
10/27/25	Video & Quiz - GUI Event Handling	Quiz	4
10/29/25	Lab - GUI Layout Manager	Assignment	10
10/29/25	Video & Quiz - More GUI Layouts	Quiz	7
11/2/25	Assignment - Red Counter	Assignment	40
11/3/25	Module 03 Test	Quiz	50
11/5/25	Video & Quiz - Class Collections	Quiz	3
11/5/25	Video & Quiz - Generic Collections #1	Quiz	8
11/5/25	Video & Quiz - Generic Collections #2	Quiz	3
11/10/25	Lab - Wrapper Class	Assignment	10
11/10/25	Video & Quiz - Autoboxing, Wrapper Classes	Quiz	5
11/12/25	Lab - Collection	Assignment	10
11/12/25	Video & Quiz - Lambdas	Quiz	7

Due Date	Assignment Name	Assignment Type	Points
11/16/25	Team Assignment - Design	Assignment	20
11/17/25	Lab - KeyValuePair	Assignment	15
11/17/25	Video & Quiz - Generic Methods and Types Bounded Types	Quiz	9
11/17/25	Video & Quiz - Wildcards Erasure	Quiz	4
11/19/25	Video & Quiz - Exception #1	Quiz	5
11/19/25	Video & Quiz - Exception #2	Quiz	5
11/19/25	Video & Quiz - Exception #3	Quiz	5
11/23/25	Assignment - Generic Collections	Assignment	40
11/24/25	Lab - Reading from a File	Assignment	10
11/24/25	Video & Quiz - Class File	Quiz	4
11/24/25	Video & Quiz - Files and Streams	Quiz	7
11/24/25	Video & Quiz - Reading from a File	Quiz	6
11/26/25	Lab - Writing to a File	Assignment	10
11/26/25	Video & Quiz - Writing to a File	Quiz	7

Due Date	Assignment Name	Assignment Type	Points
11/30/25	Team Assignment - Significant Progress	Assignment	25
12/1/25	Lab - BufferedReader/Writer	Assignment	10
12/3/25	Lab - Serialization	Assignment	10
12/3/25	Video & Quiz - Serialization	Quiz	8
12/9/25	Team Assignment - Project	Assignment	50
12/15/25	Final	Quiz	78

Grading Scale

Participation is not dependent on attendance. All course work can be accomplished just using the resources available through Canvas. Attendance is recommended as it provides direct access to the instructor and a better understanding of the concepts being discussed. The grading scale is standard and should be available as you look at your grades in Canvas. Extra Credit is also available through assignments indicated as such on the Modules.

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](#)