## CEN 4010: Software Engineering I

Instructor Information Table

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| **Masoud Sadjadi** | **Instructor Information**   * Email: sadjadi@fiu.edu * Phone: 305-710-6598 * Office: ECS 212 E or Online * Office Hours: Online by Appointment * Website: www.cis.fiu.edu/~sadjadi |
| Course Time Zone | Eastern Standard Time (EST).  Course due dates are according to this time zone. | |

## **Course Description and Purpose**

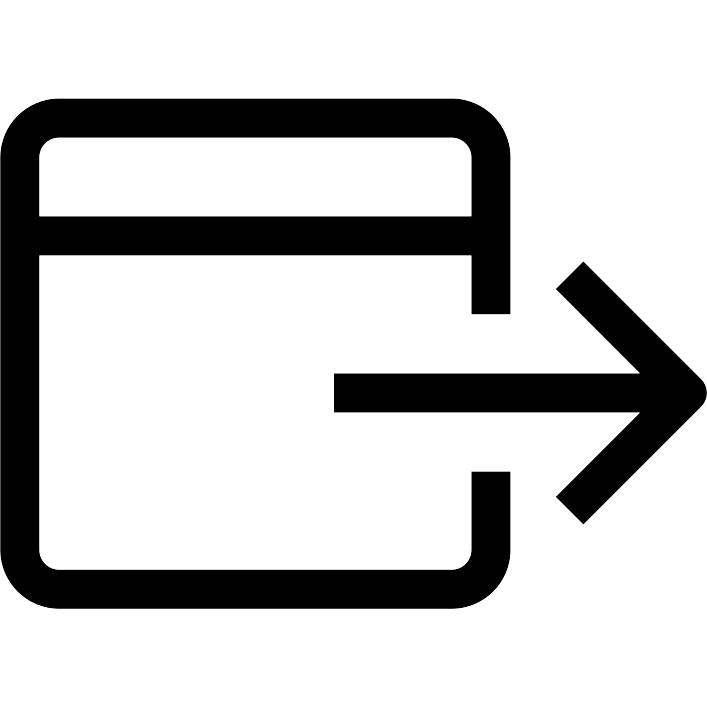
Software Process Model, software analysis and specification, software design, testing.

Prerequisites Topics:  
• Programming  
• Data Structures  
• Oral and written communication skills

Course Outcomes:  
1. Be familiar with the Software Development Life Cycle and software process models  
2. Master the techniques to gather and specify the requirements of a medium-size software system  
3. Master the techniques to design and implement a medium-size software system using UML  
4. Be familiar with software testing techniques  
5. Be familiar with system walkthroughs  
6. Be familiar with software documentation  
7. Be familiar with working in a small software development team  
8. Demonstrate the ability to communicate the details of the technical solution through verbal and written modes.

### **Policies**

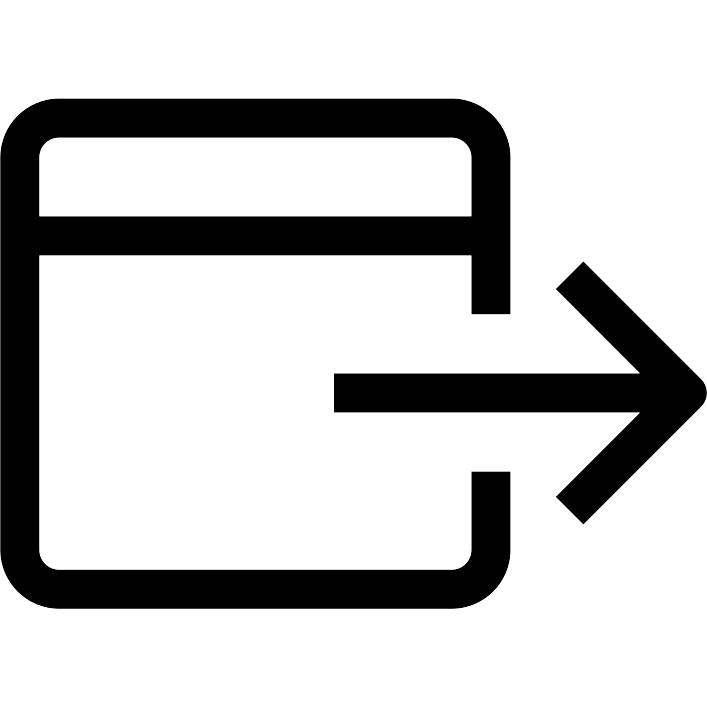
Before starting this course, please review the following pages:

* [Policies](https://fiu.instructure.com/courses/146484/pages/policies)
* [Netiquette[](https://online.fiu.edu/html/canvas/policies/)Links to an external site.](https://online.fiu.edu/html/canvas/policies/)
* [Technical Requirements and Skills](https://fiu.instructure.com/courses/146484/pages/technical-requirements-and-skills)
* [Accessibility and Accommodation](https://fiu.instructure.com/courses/146484/pages/accessibility-and-accommodation)
* [Panthers Care & Counseling and Psychological Services (CAPS)](https://fiu.instructure.com/courses/146484/pages/panthers-care-and-counseling-and-psychological-services-caps)
* [Academic Misconduct Statement](https://fiu.instructure.com/courses/146484/pages/academic-misconduct-statement)
* [Copyright Statement](https://fiu.instructure.com/courses/146484/pages/copyright-statement)
* [Inclusivity Statement](https://fiu.instructure.com/courses/146484/pages/inclusivity-statement)

### **Course Prerequisites**

CGS3095 and COP 3337

### **Textbook and Course Materials**

* Essential Scrum
* Publisher: ‎ Addison-Wesley Professional; 1st edition (July 26, 2012)
* ISBN-10: ‎ 0137043295
* ISBN-13: ‎ 978-0137043293
* You may purchase your textbook online at the [FIU Bookstore[](http://fiu.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=21551&catalogId=10001)Links to an external site.](http://fiu.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=21551&catalogId=10001).

## **Exam/Assignment Policy**

No mid-term or final exam. There will be assignments for quizzes, Scrum ceremonies, and project evaluation reports throughout the semester that build up your final grade.

## **Expectations of this Course**

This is an online course, which means there is no need for any face-to-face meetings. Students must check their fiu.edu emails on a daily basis and keep track of all their assignments and do make sure not to miss any deadlines. There will be no extension for any deadlines and there will be no exception to this rule. All the deadlines are final. You may get a chance to compensate for the points lost, but there would be no extensions.

### Students are expected to:

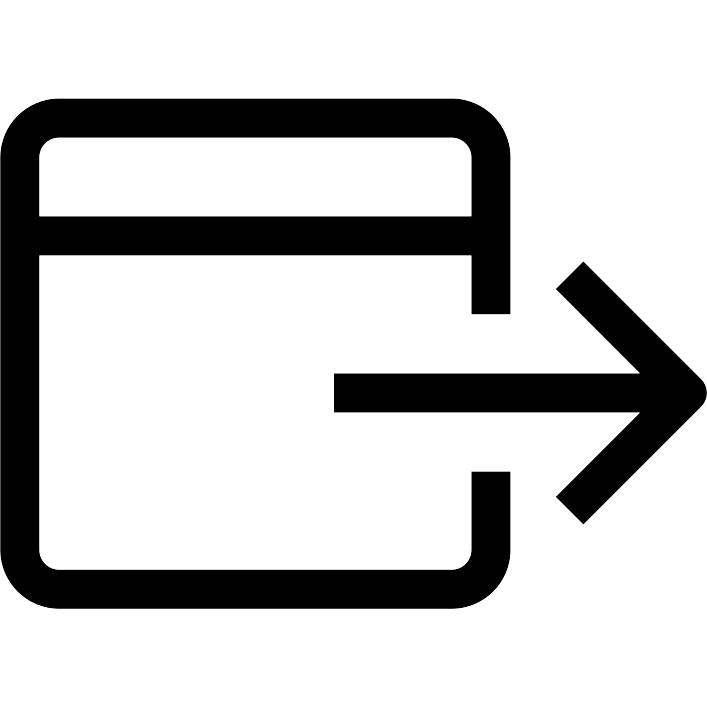
* During the 1st to 6th weeks (lectures and quizzes; see [**Modules**](https://fiu.instructure.com/courses/146484/modules/1071915)):
  + First week:
    - Scrum Introduction
    - Scrum Framework

* + Second week:
    - Agile Principles
    - Sprints
    - Requirements & User Stories

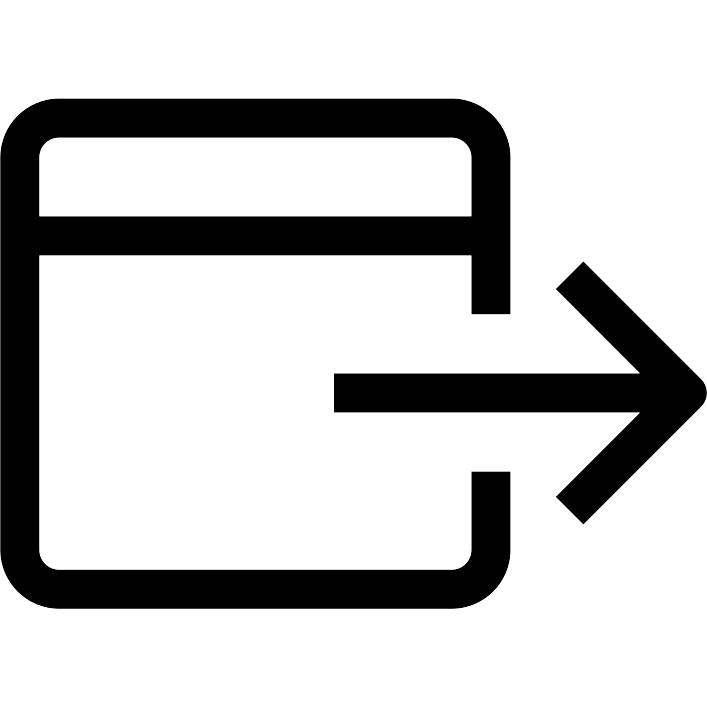
* + Third week:
    - Product Backlog
    - Estimation & Velocity
    - Technical Debt

* + Fourth week:
    - Product Owner
    - Scrum Master
    - Development Team

* + Fifth week:
    - Scrum Planning Principles
    - Portfolio Planning
    - Sprint Planning

* + Sixth week:
    - Sprint Execution
    - Sprint Review
    - Sprint Retrospective
* During the 7th Week (Project Preparation Week):
  + Complete their Canvas Profile by uploading a recognizable picture of themselves and adding a short biography.
  + Create a LinkedIn account, connect with [the instructor on LinkedIn[](https://www.linkedin.com/in/masoudsadjadi/)Links to an external site.](https://www.linkedin.com/in/masoudsadjadi/), and keep it updated throughout the semester.
  + Create or join a team.
    - Details will be provided via Canvas announcements.
* During the 8th to 15th Weeks (Sprints 1 to 4):
  + Conduct a Planning Meeting on the first Monday of each sprint.
  + Conduct four Standup Meetings on the first Wednesday and Friday, and the second Monday and Wednesday of each sprint to touch base with your team members with respect to what you have done, what you will be doing until the next meeting, and if there are any hurdles.
  + Conduct a Review Meeting on the last Friday of each sprint, and then conduct a Retrospective Meeting to reflect on the quality of your performance and your product.
* During the 16th week (the Finals Week):
  + Put together your final deliverable zip file and submit it before the deadline.

Templates:

Templates for all Scrum Ceremonies can be found at [this link[](https://drive.google.com/drive/folders/1z_6byTJYOdPQiTwoh4e2iiLc9t5wdJGE?usp=sharing)Links to an external site.](https://drive.google.com/drive/folders/1z_6byTJYOdPQiTwoh4e2iiLc9t5wdJGE?usp=sharing). Please do make sure to read the README file carefully and then modify the meeting minutes templates to best suit your situation.

## **Course Communication**

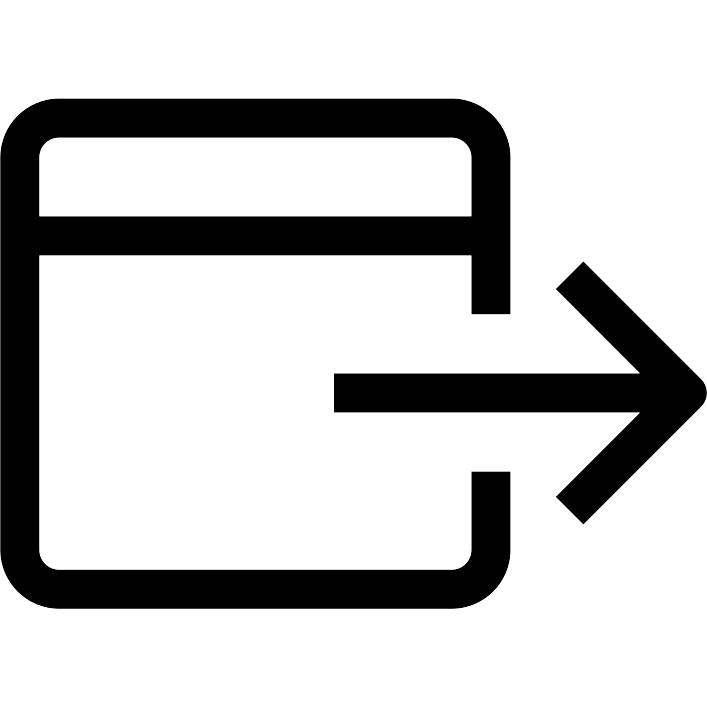
All course communication in this course will take place via Canvas Announcements (you should receive an email notification at your fiu.edu email), the [Canvas Inbox](https://fiu.instructure.com/conversations" \l "filter=type=inbox), and Zoom (see below for more information on Zoom). Check out the [Canvas Conversations Tutorial](https://vimeo.com/canvaslms/212en) or [Canvas Guide](https://community.canvaslms.com/docs/DOC-10574-4212710325) to learn how to communicate with your instructor, TA (if any), and peers using Canvas Announcements, Discussions, and Messages.

## **Computing Resources**

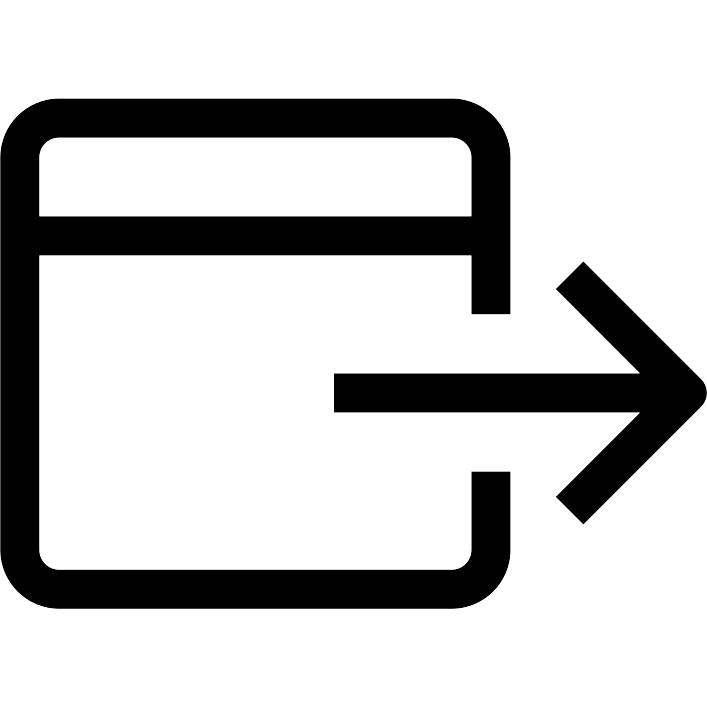
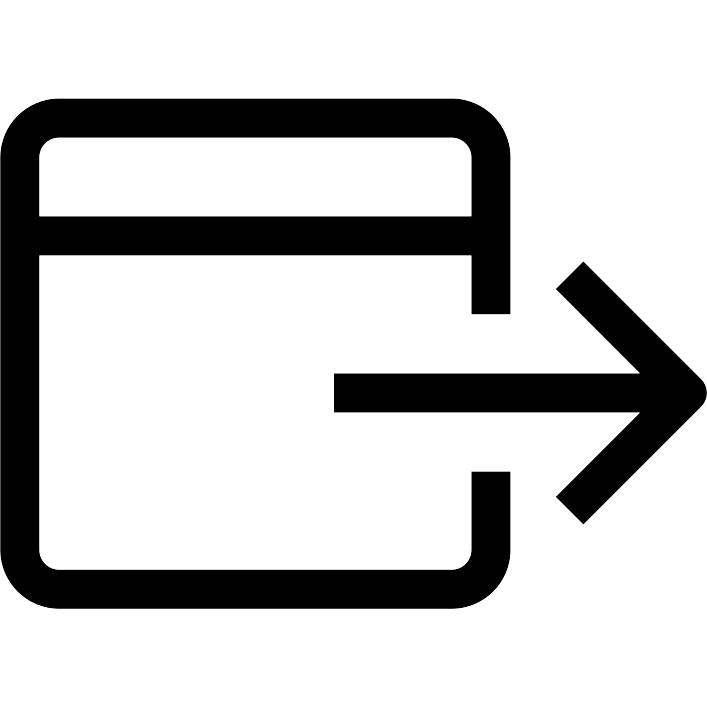
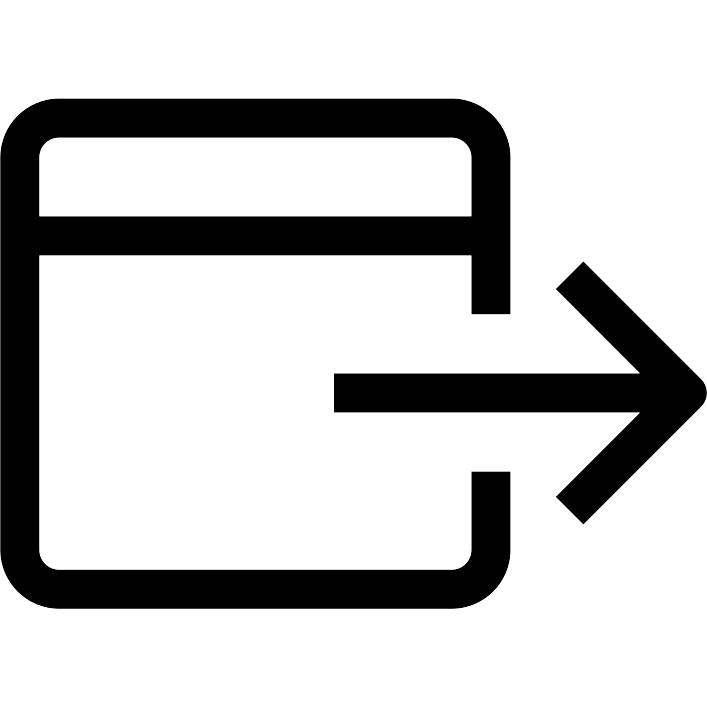
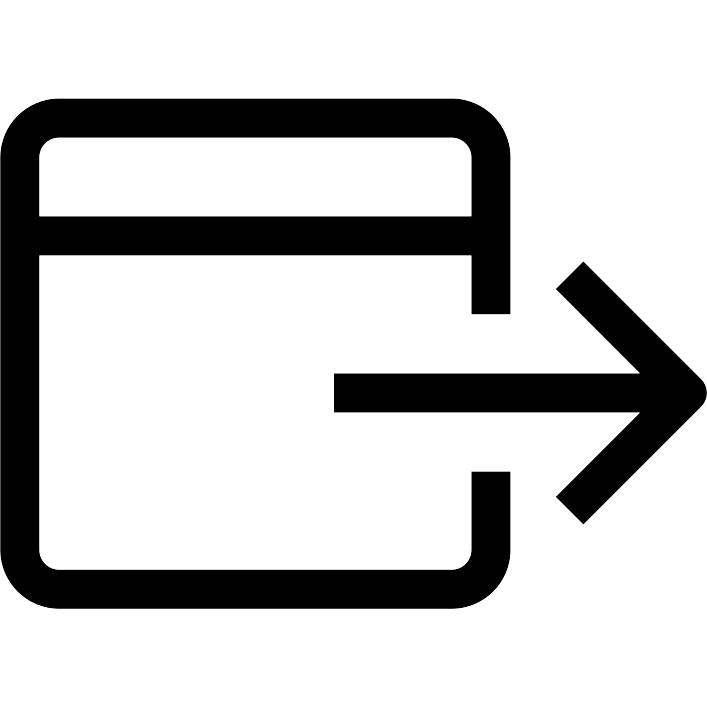
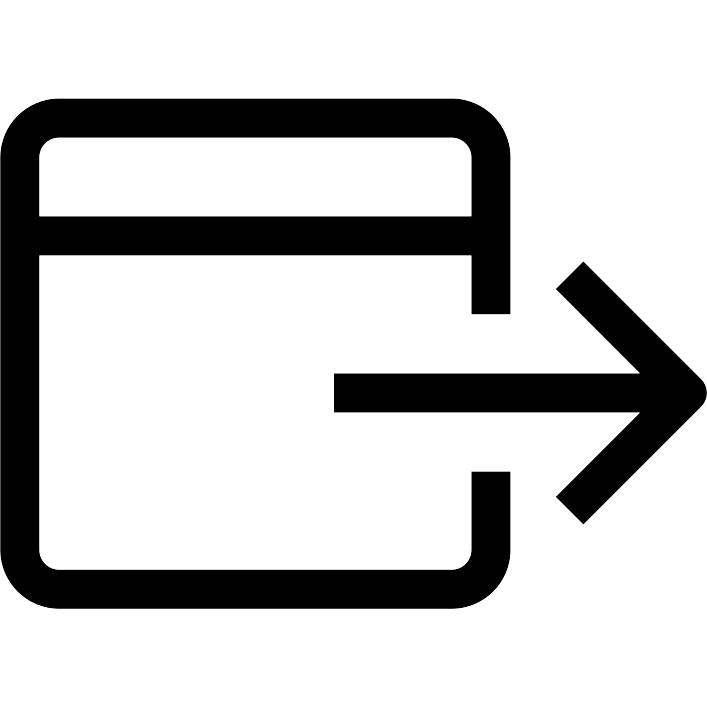
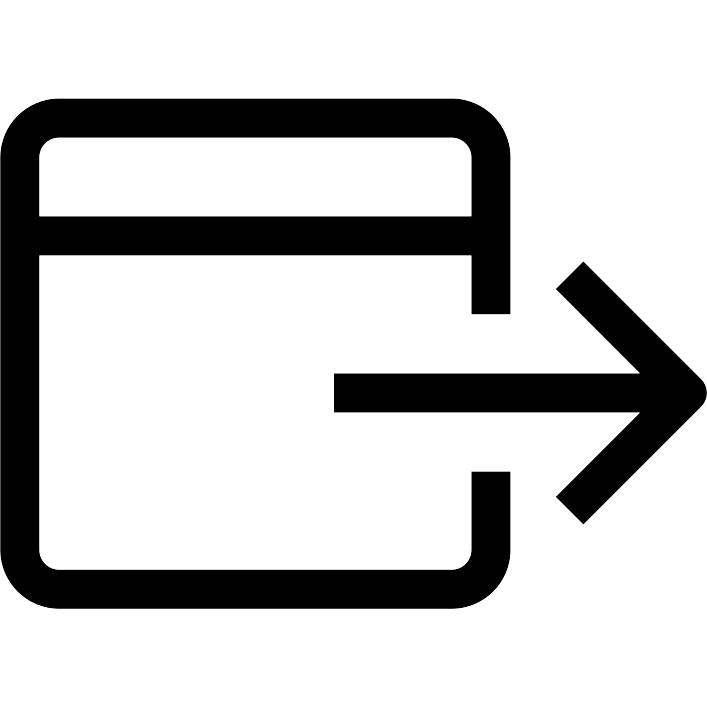
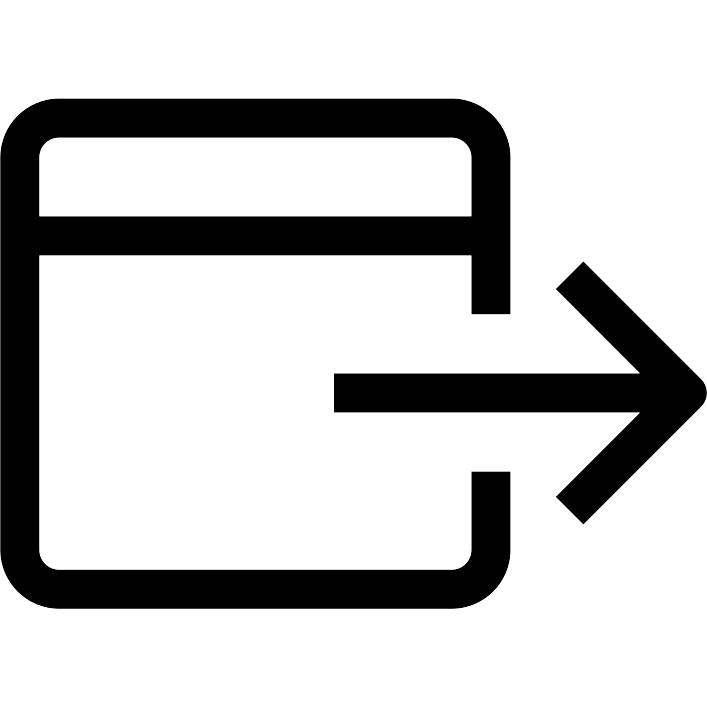
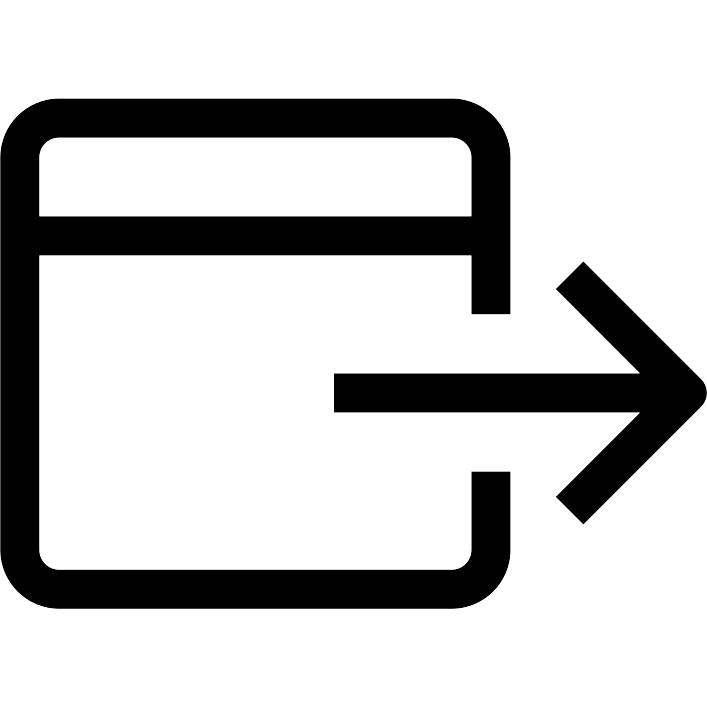
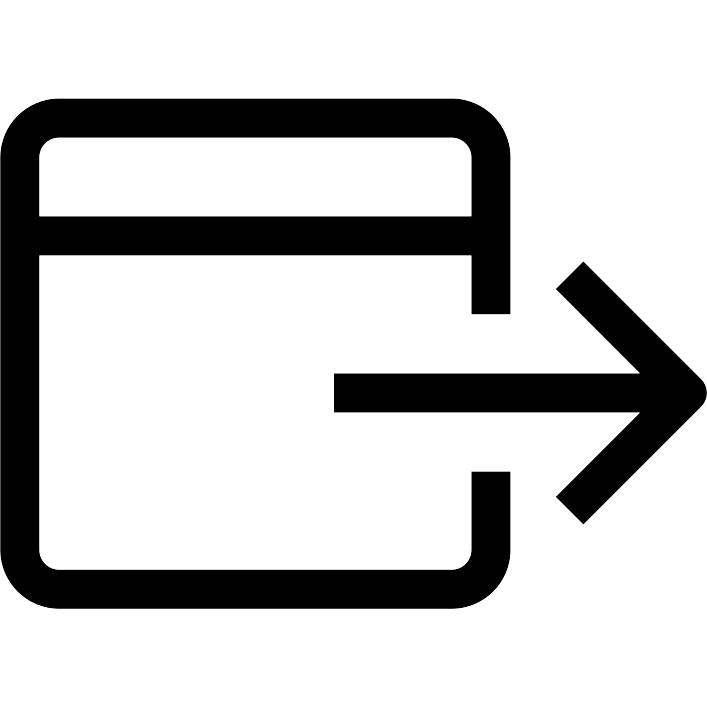
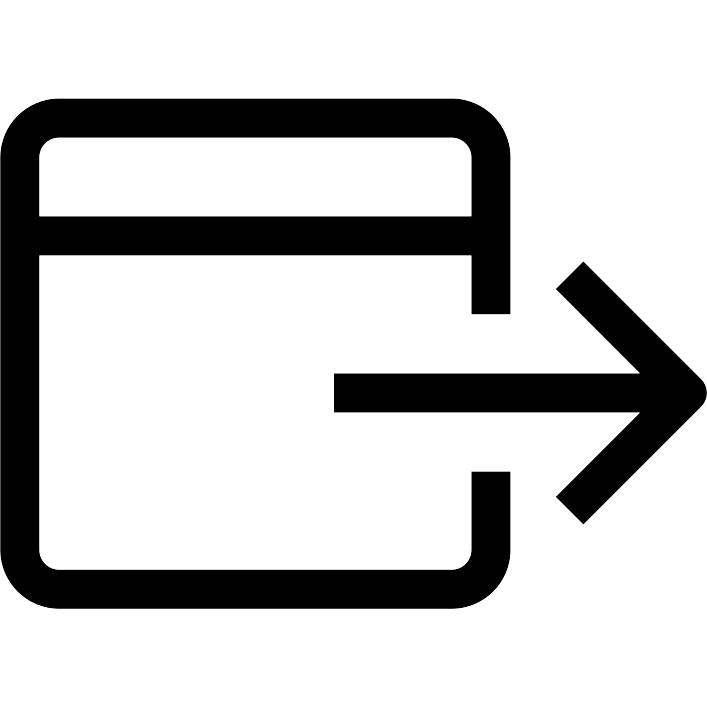
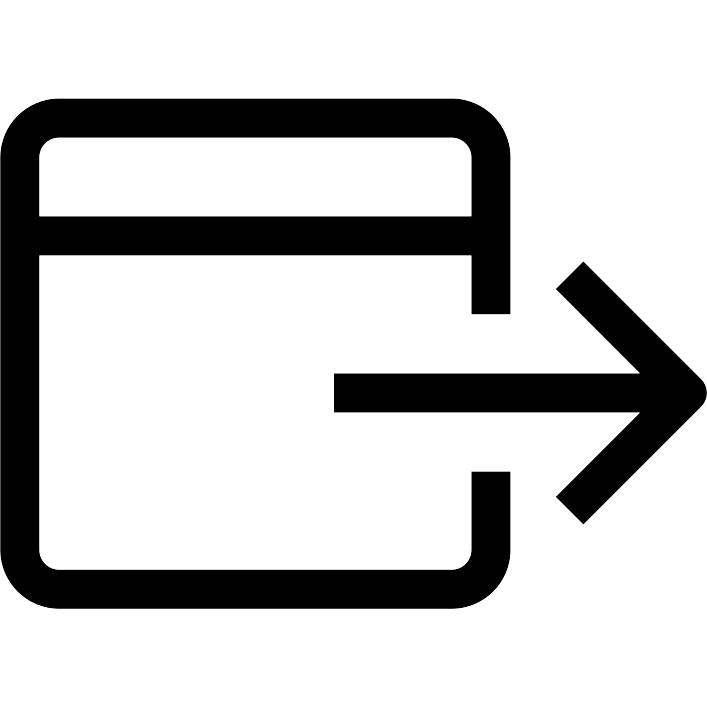
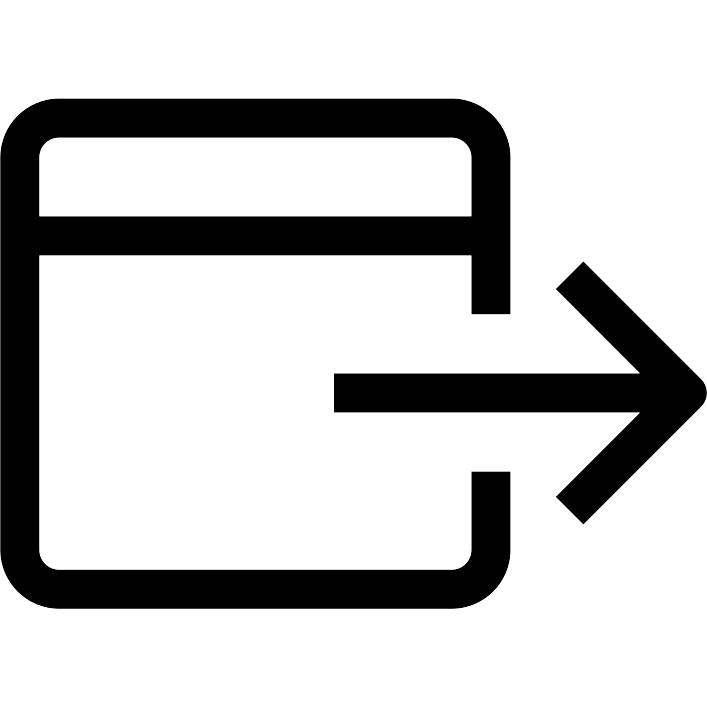
You can learn all about what our school has to offer to you at our physical and virtual labs and how to access them by reading [this document](https://fiu.instructure.com/courses/123301/files/20367774/download).

## **Zoom Video Conference**

Zoom is a video conference tool that can be used as an alternative to Discord. Note that you are strongly encouraged to do all your project-related communications and video conferencing meetings using Discord, but if you face an issue with that tool, you can always use Zoom as an alternative.

[**Zoom Test Meeting Room**[](https://zoom.us/test)**Links to an external site.**](https://zoom.us/test)   
Use this link to access the Zoom Test Meeting Room. This meeting room is available to test out the software before joining an actual session.

Reference the provided links to access Zoom student tutorials to learn about the tool, how to access your meeting room, and share your screen.

* [Download Zoom[](https://zoom.us/support/download)Links to an external site.](https://zoom.us/support/download).
* Log in[to Zoom through Desktop Application[](https://zoom.us/download)Links to an external site.](https://zoom.us/download)
* [Enable and Test Audio & Webcam[](https://support.zoom.us/hc/en-us/articles/201362283-How-Do-I-Join-or-Test-My-Computer-Audio-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362283-How-Do-I-Join-or-Test-My-Computer-Audio-).
* [Schedule a meeting[](https://support.zoom.us/hc/en-us/articles/201362413-How-Do-I-Schedule-Meetings-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362413-How-Do-I-Schedule-Meetings-) or [Join a Zoom meeting.[](https://support.zoom.us/hc/en-us/articles/201362193-How-Do-I-Join-A-Meeting-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362193-How-Do-I-Join-A-Meeting-)
* [Invite others to join the meeting.[](https://support.zoom.us/hc/en-us/articles/201362183)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362183)
* [Chat (Professors) - Students look at the attendees section for instructions[](https://support.zoom.us/hc/en-us/articles/205761999-Webinar-Chat)Links to an external site.](https://support.zoom.us/hc/en-us/articles/205761999-Webinar-Chat).
* [Share My Screen[](https://support.zoom.us/hc/en-us/articles/201362153-How-Do-I-Share-My-Screen-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362153-How-Do-I-Share-My-Screen-).
* [Record a Local Zoom meeting.[](https://support.zoom.us/hc/en-us/articles/201362473-How-do-I-record-a-meeting-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362473-How-do-I-record-a-meeting-)
* [Host Control in Meetings.[](https://support.zoom.us/hc/en-us/articles/201362603-Who-Is-The-Host-Of-The-Meeting-)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362603-Who-Is-The-Host-Of-The-Meeting-)
* [Getting Started with iOS.[](https://support.zoom.us/hc/en-us/articles/201362993-Getting-Started-with-iOS)Links to an external site.](https://support.zoom.us/hc/en-us/articles/201362993-Getting-Started-with-iOS)
* [Getting Started with Android.[](https://support.zoom.us/hc/en-us/articles/200942759-Getting-Started-with-Android)Links to an external site.](https://support.zoom.us/hc/en-us/articles/200942759-Getting-Started-with-Android)

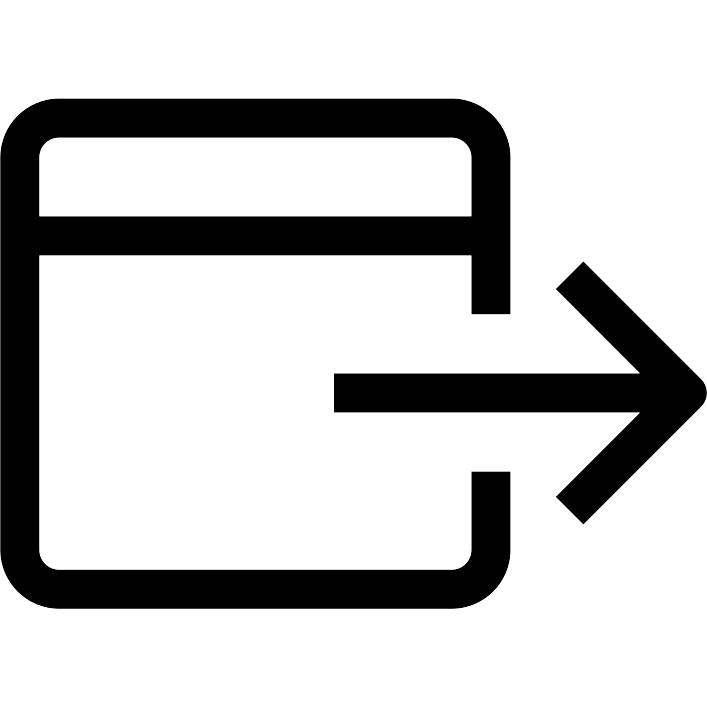
## **Grading**

Course Grades Distribution Table

| **Course Requirements** | **Weight** |
| --- | --- |
| **Scrum Ceremonies** | 25% |
| **Project Evaluations** | 50% |
| **Quizzes** | 25% |
| **Total** | 100% |

Letter Grade Distribution Table

| **Letter** | **Range%** | **Letter** | **Range%** | **Letter** | **Range%** |
| --- | --- | --- | --- | --- | --- |
| A | 90 or above | B | 80 - 83 | C | 70 - 73 |
| A- | 87 - 89 | B- | 77 - 79 | D | 50 - 69 |
| B+ | 84 - 86 | C+ | 74 - 76 | F | 49 or less |

If you encounter any technical difficulties, please contact the [FIU Canvas Help Team[](https://canvas.fiu.edu/support/)Links to an external site.](https://canvas.fiu.edu/support/).  
  
Course Time Zone | Eastern Standard Time (EST). Course due dates are according to this time zone

Academic Dishonesty

Academic dishonesty is incompatible with a degree from FIU. KFSCIS expects all of its students to practice complete honesty and transparency in all of their academic endeavors.

From the FIU Student Conduct and Honor Code:

“Undergraduate, Graduate, and Professional Students at FIU are expected to adhere to the highest standards of integrity in every aspect of their lives. Honesty in academic matters is part of this obligation. Academic integrity is the adherence to those special values regarding life and works in an academic community. Code violations may lead to suspension or expulsion from the University if a determination of responsibility has been made. These sanctions will be determined based on the severity of the incident and prior violations of the Code.”

All FIU policies regarding academic integrity apply to this course. Acts of academic dishonesty include, but are not limited to, plagiarism in written or coding submissions, cheating during quizzes or exams, enabling acts of academic dishonesty by other students by sharing your work, falsification of information, having unauthorized possession of quizzes or exams, submitting the work of another person or work previously used in another course without the express permission of the instructor, uploading course materials to any websites without the instructor’s permission, or utilizing outside paid sources to produce the work you submit. Submitting work from a repository, including third-party commercial sites offering work-for-hire, or other work repositories not expressly permitted by the instructor is considered an act of academic dishonesty and a violation of the academic integrity code.

If, at any time, you are uncertain about permitted or prohibited actions in this course, consult the instructor for guidance.

Zero tolerance for academic dishonesty: If you commit any form of academic dishonesty in this course, you WILL be reported to the FIU Student Conduct and Academic Affairs office.

I would prefer even to fail with honor than win by cheating. — Sophocles