

# Outline of Course Modules

## Outline of Modules in this Course

All content modules in this course consist of a list of topics that are covered within the module, and any associated module assessments. Each content module topic will start with a brief introduction and an outline of what is covered in the topic. There are usually multiple subtopics within each topic and each major subtopic will contain each of the sections listed below in the outline. The outline and topics are separated by a horizontal rule. Note that for this module, there are two major sub-topics : The Module Outline, and The Sub-Topic Outline.

### Outline

- Module Outline
    - Quick Start
    - Major Topics
      - Introduction
      - Outline
      - One or more Sub-Topics
    - Assessments
      - Module Quizzes
      - Labs/Projects
      - Discussion
      - Other
  - Sub-Topic Outline
    - Brief Introduction
    - Reading Material
    - Practice Exercises
    - Video Lecture
    - Alternative Video Lecture
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## Module Outline

Each module is represented by a Canvas module and will last two weeks in length. Each module consists of a number of Major Module Topics and associated assessments.

### Quick Start

The module quick start gives you an overview of the module. It contains a broad summary of the reading assignments of the module and, optionally, any video content that may help orient you to the material. If it is your study style to read the book chapters prior to lecture, then you will want to start here as it will help you approach the reading material more efficiently throughout the module.

### Major Module Topics

Module topics represent the content of the course. Each major topic is a separate Canvas page. The module topic includes a brief introduction to the topic, an outline of the topic, and a number of sub-topics that will guide you through the online material. The introduction and outline give you a broad view, at a glance, of the material that will be covered in the section. Each left-most outline entry represents a module sub-topic. There is no particular time constraint for you to complete each module topic so long as all topics within a module are completed during the two week module period.

### Assessments

There are a number of ways that assessment is achieved in this course. Quizzes, labs, and participation may be measured in several ways.

#### • Module Quizzes

Each module will have an associated *module quiz*. The module quiz is designed to test your recall and understanding of the material presented within the module. The module quiz will generally only be available during a limited window on the last day of the module. The module quiz will be counted in the **Quiz** portion of your grade.

#### • Labs/Projects

Labs and/or projects are the single activity in this course that *may* exceed the two week module length. Generally this means that a lab or project will have an lab start entry in some module and a submission entry in another module.

##### ◦ Lab/Project Start

Lab start entries will be canvas quizzes that are worth a small number of points in the **Lab/Project** portion of your grade. The reason for this is that you will be required to answer questions about the expectations of the assignment and confirm that you have downloaded all materials for the assignment. You will have plenty of time to complete this quiz, it will not be time constrained like the Module quizzes.

**NOTE: Internet connectivity issues will not be an acceptable reason for not gaining access to the lab materials!**

##### ◦ Lab/Project Submission

The lab/project submission will be a Canvas assignment that represents the majority portion of your grade. This assignment will show up in the **Lab/Project** portion of your grade.

##### ◦ Lab/Project Discussion

Each lab/project will have an associated discussion assignment. The purpose of this assignment is to give you an opportunity to discuss the

lab/project with your classmates. This will be a graded assignment with the following caveats:

- The discussion assignment, but not the discussion itself, will close precisely on the due date of the lab/project submission assignment, not at the end of the late window for that assignment. In other words, there is no late submission window for the lab discussion. It's important not to procrastinate starting the assignment, and hence, jumping into the discussion.
- Your contributions to the discussion will be graded on several properties including
  - The quantity and quality of your contribution
  - Your contribution to the learning community, i.e., how much you help your fellow student
  - Your ability to remain on topic
- Since this assignment represents course participation, it will show up in the **Everything Else** portion of your grade. This means that it's possible for these discussions to represent a significant component of your total grade.

- **Other**

There may be additional assessments. For example, more focused discussion prompts, graded practiced exercises, impromptu quizzes, surveys. In general, these are low risk assessments that are not intended to cause you stress but designed to encourage engagement with the course. They will generally be worth few points and, in most cases, will appear in the **Everything Else** portion of your grade.

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## Sub-Topic Outline

The module sub-topic will begin with a brief introduction to the sub-topic. We want to orient you and give you a basic overview that is located physically close to the other materials. In some cases, we may use outside resources, e.g. Wikipedia, when that resource gives an excellent and canonical introduction to the material.

### Reading Material

The reading material section will provide a bulleted list of the reading material for this topic. You are responsible for the information provided in the reading material. Quiz questions will be derived from this material. Note: This does not mean that the questions will be copied verbatim from the material. You are expected to comprehend the material at an abstract level appropriate for upper division computer science students.

### Practice Exercises

The practice exercises give you an opportunity to practice necessary skills derived from reading the material and watching the lecture videos. They are placed prior to the video lectures to aid readability of the module topic. Having the exercises physically closer to the reading material may aid in your orientation within the reading material.

### Video Lecture

This video lecture should be viewed as the primary lecture for this content. For most lectures throughout the course this will be a video created by your instructor. However, for some lectures, in fact many of the introductory lectures, we may use high quality video content from other authors.

### Alternate Video Lecture

If provided, the alternate video lecture presents a different or an expanded point of view on the subject matter. This video content is always external and created by other people in order to give you a diverse perspective on the material. These videos may provide additional background material that should have been covered in your earlier courses, or, simply contributes additional dimension to the video. While much of this is interesting, don't feel that you necessarily have to watch the alternate videos. If you are able to make your way through the practice exercises without too much difficulty then you should be fine. The alternate video lectures are provided to help you with the material and provide additional perspective. You may be referred to one or more of these videos based on questions asked in the discussion forum or in office hours.