

## Course Syllabus

# Course Content

We will cover the following topics this semester:

Module 1: [Programming Errors](https://umd.instructure.com/courses/1338814/modules/1670578) (<https://umd.instructure.com/courses/1338814/modules/1670578>)

Module 2: [Cryptography and Anonymous Communications](https://umd.instructure.com/courses/1338814/modules/1670579) (<https://umd.instructure.com/courses/1338814/modules/1670579>)

Module 3: [Networking](https://umd.instructure.com/courses/1338814/modules/1670580) (<https://umd.instructure.com/courses/1338814/modules/1670580>)

Module 4: [Economics and Human Behavior](https://umd.instructure.com/courses/1338814/modules/1670581) (<https://umd.instructure.com/courses/1338814/modules/1670581>)

There are also two "bonus" modules that we will not be covering, but you might find interesting:

[Digital Currencies](https://umd.instructure.com/courses/1338814/modules/1670587) (<https://umd.instructure.com/courses/1338814/modules/1670587>) and [Fault Tolerance](https://umd.instructure.com/courses/1338814/modules/1670588) (<https://umd.instructure.com/courses/1338814/modules/1670588>).

## Course Structure

This is a *flipped classroom* course. That means the lectures are all pre-recorded, and class time is used for Q&A, demonstrations, exercises, and time to work on assignments.

It is also *self-paced*. In order to provide guideposts for students who are more deadline-driven, there is a suggested "nominal" pace for the course, which corresponds to the due dates for assessed work (see below). Class time will focus primarily on the nominal pace, but there should be ample time on most days for questions regarding material from any point during the course.

## Course Grading

This course employs *\*Standards-Based Grading\**, rather than traditional points-based grading. Rather than accumulating points that are then used to determine the cut-offs for various letter grades, there are specific *learning objectives* for students to demonstrate mastery of. A final grade in the course is determined by how many of these objectives were met, and at what level.

There are three types of learning objectives:

1. **Basic Objectives:** These allow the student to show that they have a basic understanding of a particular objective within a module.
2. **Challenge Problems:** These are only available for a module once a student has successfully met that module's Basic Objectives. These cover a module's content in more detail, and across the

different basic learning objectives.

3. **Projects:** These are practical applications of the course concepts, and will form the bulk of the assessed work in the course.

## Basic Objectives

Each module is divided into a number of distinct learning objectives, of which there are 20 in total. An objective is assessed as *Completed* or *Not Completed*. As an example, within the [Programming Errors](https://umd.instructure.com/courses/1338814/modules/1670578) (<https://umd.instructure.com/courses/1338814/modules/1670578>) module, one objective would be [Stack Vulnerabilities](https://umd.instructure.com/courses/1338814/quizzes/1577168) (<https://umd.instructure.com/courses/1338814/quizzes/1577168>) and another would be [SQL Injection](https://umd.instructure.com/courses/1338814/quizzes/1577165) (<https://umd.instructure.com/courses/1338814/quizzes/1577165>).

For each basic learning objective, there is a quiz containing a set of 5 questions, randomly selected from a question bank. A student must get **4** correct to successfully complete the objective at the C level, and **all 5** correct to complete the objective at the B or A level. Multiple attempts are permitted.

## Challenge Problems

Once a threshold of basic objectives have been met for a module, that module's challenge problems become available. These are more in-depth questions about the material, that allow a student to show an understanding of the material. Most of these are free-response questions. *If you use external sources, you must cite them. Anything you quote must be appropriately indicated (with quotation marks or block quotes), with citations. Your submission must not be substantially quotations -- you must demonstrate independent thought.* We do not specify a citation format, as long as it is clear.

There are also additional challenge problems, associated with the team project and the final exam. These will be discussed separately. In total, there are 21 challenge problems (including project and exam problems).

Each challenge problem is graded on a four-point scale:

- **E:** Excellent; demonstrates mastery of the material
- **M:** Meets Expectations; approaching mastery, with minor updates required
- **R:** Requires Resubmission; demonstrates progress towards mastery, but additional learning and major updates
- **N:** Not Assessable; does not indicate that progress has yet been made

Because learning is a process, students may resubmit challenge problems as they gain mastery of a topic. The minimum time between resubmissions will be determined later.

## Projects

There are three individual projects in the course. For each, there is a nominal deadline, at which point students' submissions will be scored, and feedback provided. Students may resubmit these as many

times as they need to. **In order to pass the course with at least a C-, all of the individual projects *must* receive perfect scores.** While this might sound intimidating, experience shows that most students have either minor errors or did not grasp a key concept of the project. By revisiting the project until it works, the student solidifies their understanding of the material.

When resubmitting a project, the student must also include a brief discussion of what enabled them to make progress. This can range from "I was unable to devote sufficient time to the project before the initial deadline" to "I fundamentally misunderstood how X behaved, and have since learned..." Because the resubmission attempts are unlimited, there will be no extensions granted. No excuse needs to be given, merely an acknowledgement that more time was needed.

There is also a two-phase team project, structured as a build-it/break-it. In the first phase, teams design and implement a system. In the second phase, students *individually* attack other teams' phase-one implementations, looking for vulnerabilities.

The build-it phase is scored in two parts:

- **Basic functionality according to the specification:** As with the individual projects, this must (eventually) receive a perfect score for the students on the team to receive a C- or better.
- **Secure Design Document:** This is assessed as a Challenge Problem

The break-it phase is an evaluation of the build-it submission for some team the student was not a member of. It is assessed as a Challenge Problem. The targets for the break-it phase will be those build-it submissions made at the nominal deadline that reach a predetermined threshold on the basic functionality tests.

The project challenges are assessed on the same scale as the module challenges.

## Final Exam

The final exam is a set of four questions that you might be asked on a typical interview for a computer security-related position. Each of these is assessed as a separate Challenge Problem, using the same 4-point scale. Students who do not need the additional challenges to reach their final grade goal are not required to take the final exam.

Students will not be able to resubmit final exam questions. The final exam time is also the deadline for any resubmissions of prior auto-graded work. Challenge Problem resubmissions must be made by the day before the final, though we ask that you complete all of your resubmissions well before this.

## Unassessed Work

There are also a series of in-class exercises and homework mini-projects. These are for students' benefit as a way to reinforce concepts from the lectures, and are likely (in some cases) to help with the projects.

# Letter Grades

This course will not be curved. Instead, the following serves as a *contract* that enables each student to determine what letter grade they hope to achieve, and what precisely is required to earn this grade.

- **A**

- All scored projects at 100%
- All Basic Learning Objectives met
- 17 Challenge Problems at M or better
  - At least 1 challenge problem from each module
  - At least 2 of these must be on the final exam
  - At least 10 at E
  - The build-it document must get at least an M
  - The break-it project must get an E

- **B**

- All scored projects at 100%
- All Basic Learning Objectives met
- 12 Challenge Problems at M or better
  - At least 1 challenge problem from each module
  - At least 1 of these must be on the final exam
  - At least 5 at E
  - The build-it document must get at least an M
  - The break-it project must get at least an M

- **C**

- All scored projects at 100%, except cryptography, which must get at least 5/50
- All Basic Learning Objectives at least 4/5
- 7 Challenge Problems at M or better
  - At least 1 challenge problem from 3 of the 4 modules
  - The build-it document must get at least an R
  - The break-it project must get at least an R

- **D**

- All scored projects have been attempted, with a majority at 100%
- 2/3 of the Basic Learning Objectives met (14/20)

Pluses and minuses are awarded for work that falls between the criteria for two grades, as illustrated by the following. A student is one objective away from an A. For example, they have only 16 challenge problems assessed at an M or better, but 10 of these are an E. That student will earn an **A-**.

Another student is more than one objective away from an A, but over halfway from the B criteria to

the A criteria in *all* objectives. That is, at least 16 Challenge Problems at M or better, with at least 8 at E. That student will earn a **B+**.

You can check your progress to these grades at any time you like:



- Download [student\\_status](https://umd.instructure.com/courses/1338814/files/72230929?wrap=1) (<https://umd.instructure.com/courses/1338814/files/72230929?wrap=1>)  
↓ ([https://umd.instructure.com/courses/1338814/files/72230929/download?download\\_frd=1](https://umd.instructure.com/courses/1338814/files/72230929/download?download_frd=1)) and make it executable. You only need to do this once.
- Download [assignments414.json](https://umd.instructure.com/courses/1338814/files/72230930?wrap=1) (<https://umd.instructure.com/courses/1338814/files/72230930?wrap=1>)  
↓ ([https://umd.instructure.com/courses/1338814/files/72230930/download?download\\_frd=1](https://umd.instructure.com/courses/1338814/files/72230930/download?download_frd=1)) . You only need to do this once.
- Download [this link](https://umd.instructure.com/api/v1/courses/1338814/students/submissions?student_ids[]=all&per_page=100) ([https://umd.instructure.com/api/v1/courses/1338814/students/submissions?student\\_ids\[\]=all&per\\_page=100](https://umd.instructure.com/api/v1/courses/1338814/students/submissions?student_ids[]=all&per_page=100)) to `submissions414.json` (ELMS does not permit download links).
- Run the `student_status` python script.



## Academic Integrity










You are expected to adhere to the University's academic integrity policy. All work that is not explicitly stated to be a team effort must be done by you alone. ***You have 24 hours after the deadline of any graded work to self-report lapses in academic integrity***, which we can then hopefully resolve without a reference to the Office of Student Conduct.











Posting of any project/exercise implementation (even after the course is over) in a publicly available online location (e.g., github) is prohibited under the Code of Academic Integrity (facilitation of academic dishonesty). Any student responsible for this will be reported to the Office of Student Conduct and risks the sanction of an "XF" in the course. You may post your code on a public site such as a GitHub private repository to share with potential employers, as long as access is appropriately restricted.

## Course Summary:










Date	Details	Due
Tue Jan 31, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231364">Docker Setup and General Configuration</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231364">https://umd.instructure.com/courses/1338814/assignments/6231364</a> )	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231336">M1 Objective: Security Concepts</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231336">https://umd.instructure.com/courses/1338814/assignments/6231336</a> )	due by 11:59pm











Date	Details	Due
Thu Feb 2, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231334">M1 Objective: Stack Vulnerabilities</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231334">https://umd.instructure.com/courses/1338814/assignments/6231334</a> )	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231337">M1 Objective: Vulnerabilities and Malware</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231337">https://umd.instructure.com/courses/1338814/assignments/6231337</a> )	due by 11:59pm
Tue Feb 7, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231331">M1 Objective: SQL Injection</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231331">https://umd.instructure.com/courses/1338814/assignments/6231331</a> )	due by 11:59pm
Thu Feb 9, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231327">M1 Objective: Web Attacks</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231327">https://umd.instructure.com/courses/1338814/assignments/6231327</a> )	due by 11:59pm
Mon Feb 20, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231367">Project: Buffer Overflows</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231367">https://umd.instructure.com/courses/1338814/assignments/6231367</a> )	due by 11:59pm
Tue Feb 21, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231330">M2 Objective: Cryptography Overview</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231330">https://umd.instructure.com/courses/1338814/assignments/6231330</a> )	due by 11:59pm
Thu Feb 23, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231338">M2 Objective: Symmetric-Key Cryptography</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231338">https://umd.instructure.com/courses/1338814/assignments/6231338</a> )	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231353">Challenge: Programming Errors 1</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231353">https://umd.instructure.com/courses/1338814/assignments/6231353</a> )	due by 11:59pm
Tue Feb 28, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231354">Challenge: Programming Errors 2</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231354">https://umd.instructure.com/courses/1338814/assignments/6231354</a> )	due by 11:59pm
	 <a href="#">Challenge: Programming Errors 3</a>	due by 11:59pm

Date	Details	Due
	<a href="https://umd.instructure.com/courses/1338814/assignments/6231355">https://umd.instructure.com/courses/1338814/assignments/6231355</a>	
	 <a href="#">Challenge: Programming Errors 4</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231356">https://umd.instructure.com/courses/1338814/assignments/6231356</a>	due by 11:59pm
Thu Mar 2, 2023	 <a href="#">M2 Objective: Asymmetric-Key Cryptography</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231339">https://umd.instructure.com/courses/1338814/assignments/6231339</a>	due by 11:59pm
Mon Mar 6, 2023	 <a href="#">Project: SQL Injection and Web Attacks</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231370">https://umd.instructure.com/courses/1338814/assignments/6231370</a>	due by 11:59pm
Tue Mar 7, 2023	 <a href="#">M2 Objective: Using Cryptography</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231322">https://umd.instructure.com/courses/1338814/assignments/6231322</a>	due by 11:59pm
Thu Mar 9, 2023	 <a href="#">M2 Objective: Anonymous Communications</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231321">https://umd.instructure.com/courses/1338814/assignments/6231321</a>	due by 11:59pm
Thu Mar 16, 2023	 <a href="#">M3 Objective: Networking Overview</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231333">https://umd.instructure.com/courses/1338814/assignments/6231333</a>	due by 11:59pm
	 <a href="#">Challenge: Cryptography 1</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231341">https://umd.instructure.com/courses/1338814/assignments/6231341</a>	due by 11:59pm
Tue Mar 28, 2023	 <a href="#">Challenge: Cryptography 2</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231342">https://umd.instructure.com/courses/1338814/assignments/6231342</a>	due by 11:59pm
	 <a href="#">Challenge: Cryptography 3</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231343">https://umd.instructure.com/courses/1338814/assignments/6231343</a>	due by 11:59pm

Date	Details	Due
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231344">Challenge: Cryptography 4</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231344">https://umd.instructure.com/courses/1338814/assignments/6231344</a>	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231340">M3 Objective: Layers 1 and 2</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231340">https://umd.instructure.com/courses/1338814/assignments/6231340</a>	due by 11:59pm
Thu Mar 30, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231323">M3 Objective: Network Naming</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231323">https://umd.instructure.com/courses/1338814/assignments/6231323</a>	due by 11:59pm
Tue Apr 4, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231317">M3 Objective: IP and TCP</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231317">https://umd.instructure.com/courses/1338814/assignments/6231317</a>	due by 11:59pm
Thu Apr 6, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231325">M3 Objective: Inter-Domain Routing</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231325">https://umd.instructure.com/courses/1338814/assignments/6231325</a>	due by 11:59pm
Mon Apr 10, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231369">Project: Cryptography</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231369">https://umd.instructure.com/courses/1338814/assignments/6231369</a>	due by 11:59pm
Tue Apr 11, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231320">M3 Objective: Denial of Service</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231320">https://umd.instructure.com/courses/1338814/assignments/6231320</a>	due by 11:59pm
Thu Apr 13, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231335">M3 Objective: Network Defense</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231335">https://umd.instructure.com/courses/1338814/assignments/6231335</a>	due by 11:59pm
Tue Apr 18, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231348">Challenge: Networking 1</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231348">https://umd.instructure.com/courses/1338814/assignments/6231348</a>	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231349">Challenge: Networking 2</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231349">https://umd.instructure.com/courses/1338814/assignments/6231349</a>	due by 11:59pm



Date	Details	Due
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231350">Challenge: Networking 3</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231350">https://umd.instructure.com/courses/1338814/assignments/6231350</a>	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231352">Challenge: Networking 4</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231352">https://umd.instructure.com/courses/1338814/assignments/6231352</a>	due by 11:59pm
Thu Apr 20, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231329">M4 Objective: Economic Incentives</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231329">https://umd.instructure.com/courses/1338814/assignments/6231329</a>	due by 11:59pm
Tue Apr 25, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231316">M4 Objective: Habituation and Economical Behavior</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231316">https://umd.instructure.com/courses/1338814/assignments/6231316</a>	due by 11:59pm
Wed Apr 26, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231366">Document: Build-it</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231366">https://umd.instructure.com/courses/1338814/assignments/6231366</a>	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231368">Project: Build-it</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231368">https://umd.instructure.com/courses/1338814/assignments/6231368</a>	due by 11:59pm
Thu Apr 27, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231326">M4 Objective: Authentication</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231326">https://umd.instructure.com/courses/1338814/assignments/6231326</a>	due by 11:59pm
Thu May 4, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231345">Challenge: Economics and Human Behavior 1</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231345">https://umd.instructure.com/courses/1338814/assignments/6231345</a>	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231346">Challenge: Economics and Human Behavior 2</a> <a href="https://umd.instructure.com/courses/1338814/assignments/6231346">https://umd.instructure.com/courses/1338814/assignments/6231346</a>	due by 11:59pm


Date	Details	Due
Mon May 8, 2023	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231347">Challenge: Economics and Human Behavior 3</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231347">https://umd.instructure.com/courses/1338814/assignments/6231347</a> )	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231365">Document: Break-it</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231365">https://umd.instructure.com/courses/1338814/assignments/6231365</a> )	due by 11:59pm
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231357">Completed: Basic Objectives</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231357">https://umd.instructure.com/courses/1338814/assignments/6231357</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231358">Completed: Excellent</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231358">https://umd.instructure.com/courses/1338814/assignments/6231358</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231359">Completed: Meets Expectations</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231359">https://umd.instructure.com/courses/1338814/assignments/6231359</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231360">Completed: Module Challenges</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231360">https://umd.instructure.com/courses/1338814/assignments/6231360</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231361">Completed: Projects</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231361">https://umd.instructure.com/courses/1338814/assignments/6231361</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231362">Completed: Write-ups</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231362">https://umd.instructure.com/courses/1338814/assignments/6231362</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231363">Computed</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231363">https://umd.instructure.com/courses/1338814/assignments/6231363</a> )	
	 <a href="https://umd.instructure.com/courses/1338814/assignments/6231318">Final: Question 1</a> ( <a href="https://umd.instructure.com/courses/1338814/assignments/6231318">https://umd.instructure.com/courses/1338814/assignments/6231318</a> )	

Date


Details

Due


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 [Final: Question 2](https://umd.instructure.com/courses/1338814/assignments/6231332)  
(<https://umd.instructure.com/courses/1338814/assignments/6231332>)

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 [Final: Question 3](https://umd.instructure.com/courses/1338814/assignments/6231324)  
(<https://umd.instructure.com/courses/1338814/assignments/6231324>)


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 [Final: Question 4](https://umd.instructure.com/courses/1338814/assignments/6231319)  
(<https://umd.instructure.com/courses/1338814/assignments/6231319>)

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 [Target: Basic Objectives](https://umd.instructure.com/courses/1338814/assignments/6231371)  
(<https://umd.instructure.com/courses/1338814/assignments/6231371>)

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 [Target: Module Challenges](https://umd.instructure.com/courses/1338814/assignments/6231372)  
(<https://umd.instructure.com/courses/1338814/assignments/6231372>)

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 [Target: Projects](https://umd.instructure.com/courses/1338814/assignments/6231373)  
(<https://umd.instructure.com/courses/1338814/assignments/6231373>)

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 [Target: Write-ups](https://umd.instructure.com/courses/1338814/assignments/6231374)  
(<https://umd.instructure.com/courses/1338814/assignments/6231374>)

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