

Honors Activities for CSCE 120 Sections 200, 201, & 202

From Syllabus

- You will have to develop and submit three artifacts that help to deepen your understanding of a topic in CSCE 120.
- You will review other student artifacts and provide feedback.

Artifacts

You must do each option at least one time.

Options

- Create a lab activity that can be used for a CSCE 120 lab session.
 - It should highlight challenging aspects of something used in the course.
 - Guidelines
 - Normally, I shoot for things that illustrate something that will be used in an upcoming homework that frequently challenges students, especially when working on their own.
 - It should be doable in about 40 minutes while students are also discussing what they are doing with each other. Activities take longer when they are thoroughly discussed and not just implemented.
 - It should have some additional optional activities that further deepen their learning if they get the required stuff done quickly. Likely because they did not really talk about things.
 - Materials
 - Prompt
 - Should lay out
 - What is needed for completion
 - Objectives
 - Short statements of why are they doing this
 - The body of the prompt
 - Narrative for the lab
 - What they need to do including specifics
 - Starter Code
 - Providing starter code allows students to spend their time on solving the problem and not going through all of the steps of setting up a program from scratch.
 - You are honors students, and I suspect that most of you could set up a new program quickly. However, many of our students are taking this as their only required course in computer science and want to get a C with D or F effort.

- Test cases
 - How would you test if students come up with a solution that works.
 - What are the specific inputs and expected outputs?
 - Don't forget edge cases.
- Create a short video tutorial
 - Create a video helping students understand a challenging aspect of coding C++.
 - Try to present information from a different perspective.
 - They have already seen an instructor present the information. If that didn't work for students, what can you do differently?
 - Materials
 - Video
 - Approximately 5 minutes is normally enough time, but you can do more if needed
 - Caption video
 - You can use something that will automatically caption and then edit the captions.
 - Here is a [website listing free video editors](#).
 - All code
 - Including starter code if applicable.
 - Saves time of creating from scratch (unless that the the purpose of the lesson)
 - Anything you show in the video such as illustrations or slides

Artifact Due Dates

- Sunday, October 8
- Sunday, November 5
- Sunday, November 26

Submission

- You will put your materials in the Submission folder in the appropriate subfolder of the Honors [artifact submission folder](#) on the student google drive.
 - Create a folder in the Submission folder named with <yourName>-<option>-<title> where option is "lab" or "tutorial"
 - So if I were to submit a lab on "Move semantics", I would name my folder something like
 - MichaelMoore-lab-MoveSemantics
 - Michael_Moore-video-Move_Semantics
 - Place all materials in the folder by the due date
 - Additional steps to be determined.

Feedback

You will need to provide feedback for your assigned artifacts. You are free to provide feedback for additional artifacts if you want.

Feedback Due Dates

- Sunday, October 15
- Sunday, November 12
- Sunday, December 3