

Ben Tyler, Associate Professor, School of Engineering and Digital Sciences
btyler@nu.edu.kz

Our Approach to Proctoring Moodle Quizzes

For the last quiz and final exam of our CSCI 152 and 272 courses, we came up with an approach where students would record themselves taking the quiz/exam using a free, cross-platform software package called OBS (<https://obsproject.com/>). A nice feature of OBS is that it allows you to record both your computer desktop and webcam video at the same time, and does not require a network connection (though taking the Moodle quiz/exam itself does.)

Here, we are providing the instructions and links to demo videos that we have created that we have given to our students (via Piazza) in how to install and record themselves taking the quiz/exam. Thanks goes to our instructor Aigerim Yessenbayeva for doing the Mac versions and troubleshooting.

Feel free to reuse and modify the instructions for your own courses. Feel free to email me (btyler@nu.edu.kz) if you have questions or ideas about how we can improve this process.

Desktop Recording

Perhaps a better approach than Zoom for recording your desktop and video cam for Quiz 5 and the final exam is the following free tool, which works under Windows, Mac, and Linux:

<https://obsproject.com/>

I've experimented with it some, and it doesn't require a login or internet connection to work (which is needed with Zoom). You will need internet to access and take the quiz and exam, however. For our purposes, you can set the video output to the lowest settings, so as to minimize file size and processing. We don't want you to *stream" video, but just *record* it.

Actually, getting familiar with such tools should be useful well beyond this class, although you would probably want separate editing software to clean up the videos you create. I think gamers also use OBS to stream play sessions.

Recording the Quiz and Exam

As previously mentioned, we will be having an online quiz and final exam for the course using Moodle. We are requiring that students record themselves taking the quiz and exam. We suggest that you use OBS or Zoom. After you are done with the quiz or exam, we will provide a place for you to upload your video (probably in Google Drive).

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After the quiz or exam, the instructors reserve the right to contact you online via teleconferencing software to discuss your answers, or ask you similar questions -- how you respond during these "live grading" sessions can impact your grade.

To help get people started, I've created a quick video about installing OBS for Windows:
<https://youtu.be/xVy1nqSY8UM>

and another about how to go about recording a quiz or exam in Moodle using OBS:
<https://youtu.be/gVhozQbWxV0>

Aigerim Yessenbayeva made a similar video for Mac users;
<https://youtu.be/XaYbgfJ4usA>

For minimizing the size of the resulting video, click "Settings" in the lower-right corner, and select "Video" in the pop-up window. Set the output screen resolution to the lowest value, set the filter to Bilnear, and the FPS to 10. The video won't look so nice, but should provide enough detail for us to see what you are doing.

FINAL EXAM VIDEO SUBMISSION INSTRUCTIONS

Dear students,

Please re-watch the videos mentioned in the previous posts to make sure that you can record your video, audio and screen properly to minimize any stress during the final exam.

Note that the final exam will be composed of two parts, Part 1 and Part 2, each which should take you 50 minutes or less to complete. You should record the two parts separately, and send the videos AFTER you have completed both parts of the exam.

Here are some instructions on recording and submitting the videos:

1. Before starting the recordings, please change the format of the video to **.mp4** or **.mkv** and check the **directory** where it will be stored.
2. Once you start recording, show your **student ID** to the camera, along with your **workspace**, and any **scratch paper** you plan on using. The scratch paper must be initially blank. Also, make sure that your webcam is capturing your face. (if you do not have your student ID please show a Passport or National ID with the picture and full name on it)
3. Take a deep breath, and take Final Exam - Part 1 in Moodle.
4. When you are finished with **part 1 of the exam**, click the button "**Submit and finish**".

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5. Go back to OBS and click on “**Stop recording**”, or stop recording using other means which you might be using.
6. Go to the **directory** where your video is stored, and **rename that video** to the following format: *FirstNameLastName_SectionX_P1 or P2*, where **X** is the **number of your lecture section**, and **P1** or **P2** is indicating the **part of the exam (1st or 2nd)**.
7. If you have several separate recordings for audio, video and screen recordings, then they all should be submitted in the following format:
firstNameLastName_SX_PY_audio,
firstNameLastName_SX_PY_screenRecording,
firstNameLastName_SX_PY_faceRecording etc.
8. When you are ready to begin part 2 of the exam, **repeat all the steps from 3 to 7 again for Final Exam - Part 2.**
9. **Do not try to send anything until you have finished both parts of the exam.** Then you should email your recording to csci.submit@gmail.com.

Due to the size of the videos, they will likely be uploaded to Google Drive, and the links will be sent. You only need to share with the above email account. Do not panic if it takes a while for your recording to be uploaded.

10. Your recordings need to be submitted right after the exam has ended, but we understand that it might not be immediate due to slow upload speeds.

Good luck!

FINAL EXAM - FINAL INSTRUCTIONS

Dear Students,

Final Exam - Part 1 and **Part 2** should now be visible in your CSCI 152 lecture section in Moodle. You should go and take note of the opening and closing times for each part, as well as the time limits. We have added a little time here and there to account for potential internet slowdown, and also to allow you to take a short break between parts 1 and 2.

The first part should open at 15:00, but be sure that you have everything set up properly, and that you are recording, etc., before you begin.



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When you start a part of the final exam, Moodle will time it so you should have the fully allotted time to complete it as long as you don't start too late.

BEFORE YOU START, you must read and understand the instructions on the intro page of each part of the Final Exam, whose text we have copied below.

If you encounter issues during the exam regarding recording, it is your first priority to complete the exam. If you have technical issues regarding taking the exam itself, please post them here "Visible only to instructors" on Piazza. Please don't email us directly, as we will be busy monitoring the boards here.

Good luck to you all.

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Before starting this part of the final exam, make sure that you have begun recording video and audio as directed by the course instructors. Also, at the beginning, do not forget to show an official picture ID to the camera, as well as your workspace, and any scratch paper you will use (front and back). Make sure that your face is visible during the exam. You are not allowed to shut down the recording until you have submitted this part of the exam.

If recording fails during this part of the exam, it is your first priority to finish and submit it. We may contact you later to do "live grading" in such situations.

You cannot use notes, books, online resources (including the course materials and Piazza), or any other digital or printed resources during the exam. You are not allowed to communicate with anyone (including instructors) during the exam – communicating via phone, messaging, email, talking, social media, etc. are all prohibited. This includes the time between the first and second part of the exam.

Answer each of the questions to the best of your ability. You are not allowed to ask instructors questions about the exam problems during the exam -- this causes security issues. However, if you think that there is a specific problem with a particular question, let us know after the exam, and we may adjust grading accordingly if there is indeed an issue. However, you can contact us between exam parts in Piazza if there are technical issues that we need to be made aware of.

You may use pen/pencil and paper for scratch work – but you must show your blank paper that you will use to the camera before starting this part of the exam.

You are not allowed to discuss the exam and its contents with anyone, including posting questions to Piazza about it, until the course instructors inform that it is safe to do so.

Statement of Academic Integrity. We live in difficult times, which requires more independence and responsibility to be academically honest. I solemnly promise not to commit academic misconduct of any



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form, and to report any actual or attempted acts of academic misconduct that I am aware of. I accept that any acts of academic misconduct on my part will be sanctioned more severely than usual.