# Remote Assessments

Tests and Quizzes in a Virtual Learning Environment

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### 1. Respondus

### 2. Canvas Quizzes



#### **Dashboard**

**Published Courses (3)** 

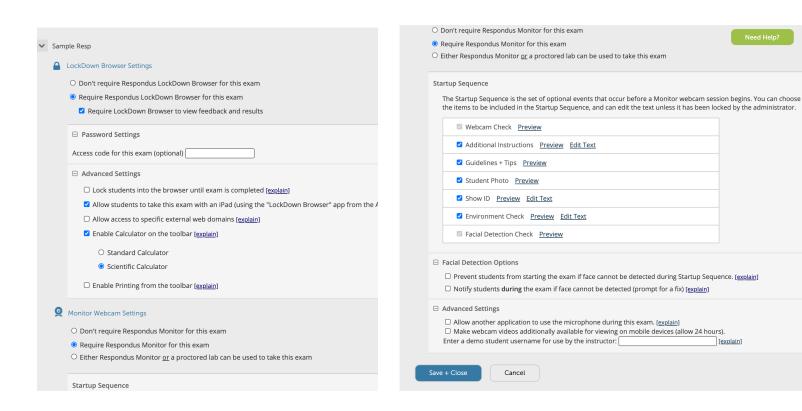
### Caveats before I start:

- I don't claim to be an expert or even an advocate of these.
- Test everything yourself. Once you find a setup you like, stick to that.
- These services are updated often; things might work differently from how I remember.
- Things might work differently from the documentation you find online.

# Respondus Lockdown Browser & Respondus Webcam Monitor

- Respondus Lockdown Browser prevents students from doing anything on their computers outside of the quiz environment.
- (Can't access websites, instant messaging, ...)
- Webcam Monitor also records the students using their Webcam. Can be reviewed later by instructor.
- In my experience, it mostly serves as a deterrent.
- Not clear (to Chris) if we are allowed to require these services.

## Respondus Settings I used in Math 2A

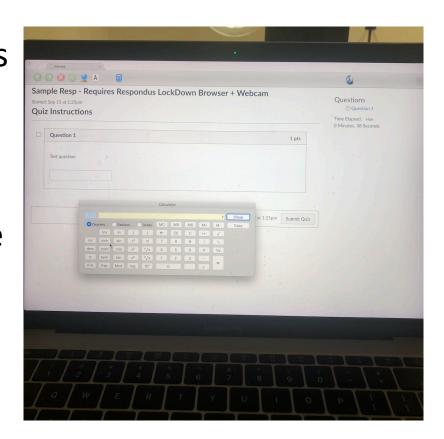


See also advice from Rachel Lehman and others on https://www.math.uci.edu/~remote\_teaching/

[explain]

# Respondus Lockdown Browser & Respondus Webcam Monitor

- Difficult to test Respondus as the instructor. (Preview causes my computer to crash. Use Student View.)
- You can incorporate a simple built-in calculator, but the students don't like it.
- The students can't upload anything while in the Respondus environment.

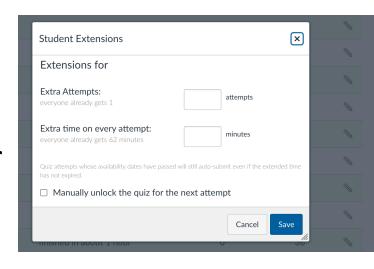


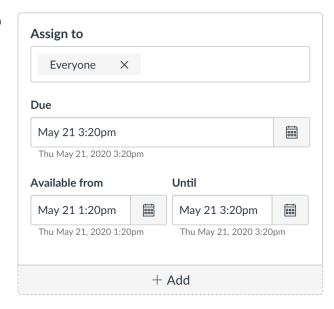
### Respondus Warnings

- It's another piece of technology the students need to download.
- Don't for example have a pdf-download within the Respondus test.
- My fault: A few times images did not show up in Respondus.
- The students can't upload anything while in the Respondus environment.

### Canvas Quizzes

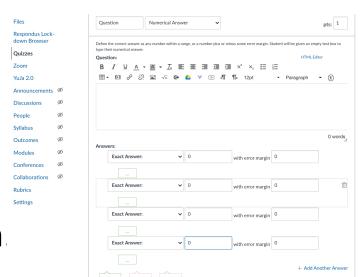
- Have nothing to do with "quizzes" in particular; could be midterms or exams or ungraded surveys or ...
- Easy to import and export.
- No way to duplicate that I know of other than by import-export.
- Pretty easy to customize: give a student extra time, alternate due dates, etc. Once published, go to "Moderate this quiz".





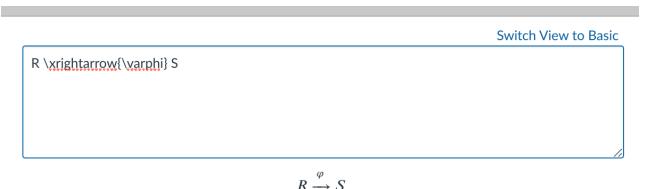
### Many different question types

- Can be auto-graded: True-False, Multiple Choice, Numeric Answer, Matching
- Or you can grade them: Fill in the blank, free response, file upload (if you're not using Respondus)
- I've only used a handful of the question types. Let me know if you have a favorite type I didn't mention.
- By default, 0 seems to always be a correct numeric answer unless you delete it.



### LaTeX in Canvas quizzes

- Not bad, no keyboard shortcut for accessing it as far as I know.
- The math produced is an image file which can be resized and edited or copy-pasted without much trouble.
- I never like the spacing after it... I often force a space inside the LaTeX code, like \sin(x)\;



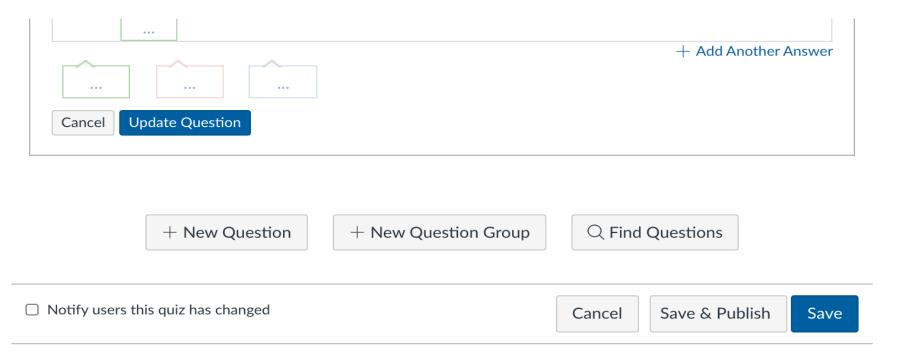
### Warnings

- Images, pdfs, etc you upload on a quiz are visible to the students by default in the Files section.
- Students see their score with 0 for all the non-autograded questions
- Comments do not save, scores do not update, unless you tell them to update.

<del></del>				
CourseLearningObjectives.pdf	Sep 24, 2017	Sep 24, 2017	82 KB	•
Quiz Files	Aug 8, 2020			Ø
SampleMidterm2-Solutions.pdf	Aug 26, 2020	Aug 26, 2020	Christopher J Da467 KB	
Unit1-LearningObjectives.pdf	Sep 24, 2017	Sep 24, 2017	103 KB	•
Unit2-LearningObjectives.pdf	Sep 24, 2017	Sep 24, 2017	112 KB	•

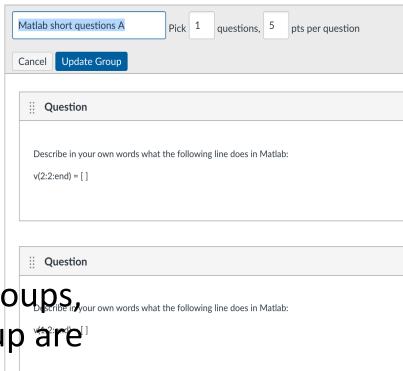
### Warnings 2

- I usually wind up frustrated with the "Question Bank" feature.
- Be sure to save the question before saving the quiz.
- If you have multiple versions, the "Preview" will only show you one version.



### Favorite feature: Question groups

- Easy to make multiple automated versions of the exam.
- Easy to rearrange.
- Suggestion: Use many question groups, where the questions within a group are similar.
- Suggestion: Use language/phrasings the students have seen before.
- Suggestion: Have a statement about academic integrity and copied answers at the beginning of the exam.



### Take-Home Exams

### **General Setup**

- Largely unproctored exams
- Questions are made available at specified time (via email or Canvas)
- Questions are uploaded to Canvas (or Gradescope) via assignment

### <u>Tips</u>

- Have students practice scanning/uploading documents
- Students upload a single .pdf of their results
- Students should check their submissions
- Give students a copy of blank "response sheet" before the test starts

# **Utility of Response Sheets**

### Standardizes formatting for test responses

#### MATH 13 - INTRODUCTION TO ABSTRACT ALGEBRA FINAL EXAMINATION - ANSWER SUBMISSION SHEET

Instructions: Please print this sheet before taking the test. You will put your answers on these pages. At the end of the exam, scan these pages and upload them to Canvas. It is wise to print these on individual sheets of paper (i.e., not double sided).

Reminder: You are expected to follow the usual academic integrity rules for the taking examinations. In particular, the following rules are in place:

- You are free to consult your handwritten notes and "slides" from video lectures.
- You are not to access any online resources. Any solutions that look too similar to potential solutions
  online will be given zero points. Use of any online calculators (or handheld calculators) is also not
  allowed.
- You are not to work with anyone else during the exam. The work you show on the exam should be your own.
- No calculators should be used. Rather, you should show all mathematical work on your exam (except
  where otherwise noted).
- Any hint or indication of breaking the above rules will result in a decreased score (with either a 0
  given to a problem or the entire exam).

Please sign the below: I have read the above and understand the consequences of not following these rules.

Signature: \_\_\_\_\_

UCI ID: Please place your UCI ID below (face up) when you scan this page. Your name, picture, and UCI ID number should be legible.

#### Question 1.

(a)

(b)

(c)

(d)

### At-Home Exam

### Take Home vs. At-Home Exam?

- At-Home Exam has some added layer of proctoring
- Useful when questions aren't easily adapted to Multiple Choice

### **Considerations for At-Home Exams**

- Will there be a single time slot to take the test?
- Will students need printers?
- Will students need additional time to upload their submissions?

# At-Home Exams: Zoom Proctoring

### **Zoom Proctoring**

- Advantage: No-record proctoring
- Advantage: Can make announcement during test (e.g., two mins left)
- Advantage: Can answer questions via chat in real-time (e.g, Do I need to simplify my answer for #2?)
- Disadvantage: Difficult to monitor large groups of students
- Disadvantage: No lock-down browser capabilities

### **Tips**

- Must be done during scheduled lecture or TA discussion time
- Require students to turn on cameras, off sound, and off virtual background
- Have TAs available to check student faces to picture roster

# At-Home Exams: Respondus Proctoring

### <u>Idea: Use Respondus to proctor written test</u>

- Advantage: Recorded monitoring & lockdown browser
- Advantage: Flexible timing all students take at same time, or students take over several hours
- Disadvantage: Complicated Set-up

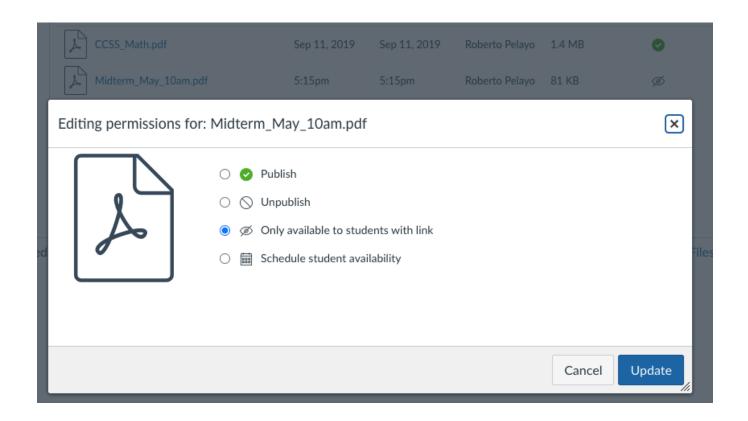
# At-Home with Respondus: Setup

### Need 3 main components:

- Upload the test to "Files"
- Build an Assignment to upload the finished test
- Build a Quiz with 1 question
  - Respondus can only be attached to a quiz

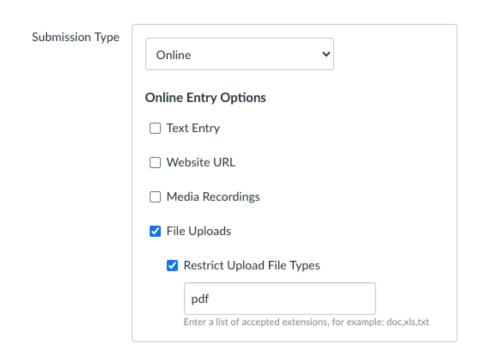
# At-Home with Respondus: Uploading File

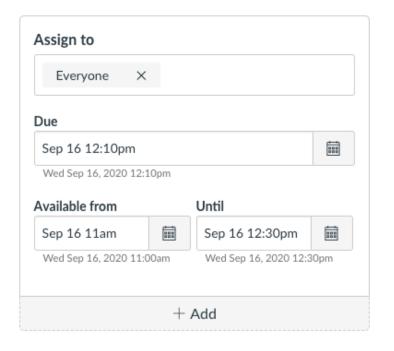
Make sure that visibility is set to "Only available to students with link"



# At-Home with Respondus: Assignment

Create an Assignment to Receive Upload of Completed Test

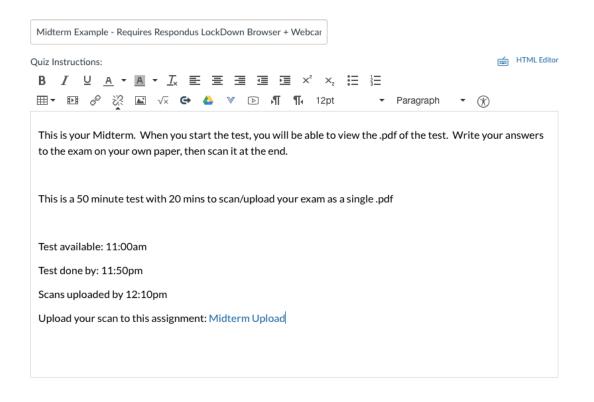


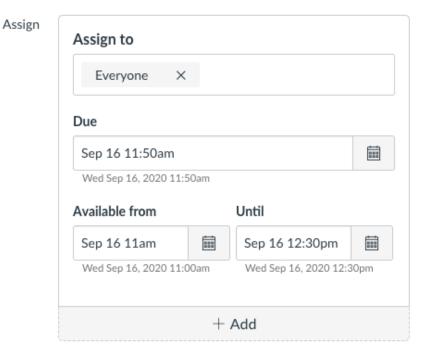


Test Time: Starts at 11am; ends at 11:50am; scan/upload by 12:10pm

# At-Home with Respondus: Quiz

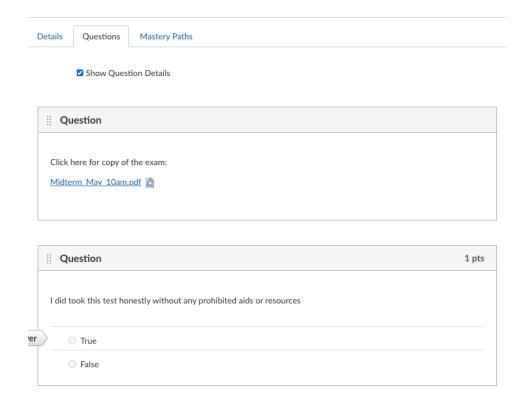
Quiz settings (this is what Respondus is attached to)



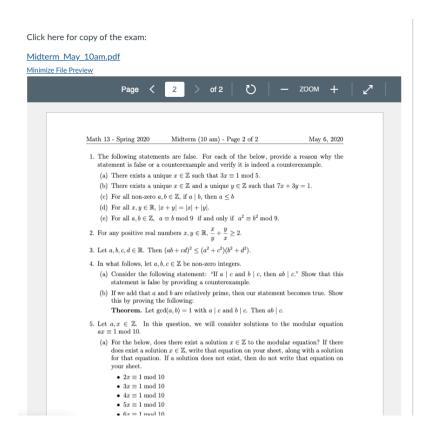


# At-Home with Respondus: Quiz

### The Setup:



### What Students See:



# Concluding Thoughts

- Make clear the expectations to students (frequent emails)
- Give students the opportunity to practice
  - Practice with uploading a dummy assignment
  - Practice with Respondus before high-stakes tests
- Consider giving "response sheets" early
- Tell students to not panic if there is a tech problem...we will fix it!