## September 14-15

The "beta" on Gradescope's new multi-version feature:
how to create and grade assessments with multiple versions
(and save time along the way!)
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## Overview



- Brief introduction to Gradescope and the Multi-Version Assignment feature
- Strengths \& weakness Multi-Version feature
- How-to instructions with time-saving tips
- Q \& A \& share-outs


## Reactions poll:

Select "Raise Hand" if you have used Gradescope


## What is Gradescope?

all gradescope
by Turnitin

- Grading software that enables fast, consistent, flexible scoring
- Supported assignment types
- Exams/Quizzes
- Homework/Problem sets
- Bubble sheets
- Programming assignments
- Online
- Student work is uploaded by either the student or instructional team into the software
- Simultaneous grading by grading team +/- AI


## Chat prompt:

If you have used Gradescope, please share in the Chat what type of classroom assignment(s) you have used it for

## 23: A woman with HIV v

## Total Points

$6.0 / 6.0$ pts $\quad$ Expand View
:: $1+6.0$ Correct: Support; HIV genome seqs isola...
:: $2+6.0$ Support: The genomes share a common ...
:: 3 +3.0 Support: the two genomes are closely re...
:: $4+4.0$ Correct explanation but selected "Refute..
:: $5+0.0$ Incorrect or unanswered

| + Add Rubric Item | ■ Create Group | $\pm$ Import... |
| :--- | :---: | :---: |

## Submission Specific Adjustments

Point Adjustment 0
Provide Comments Specific To This Submission

Apply Previously Used Comments

Q Q
< Previous Ungraded
\$Previous
*Previous

Rubric items are highly editable (text, points, pos/neg scoring, order)

Rubric items can be created de novo or imported

Comments can be type \& re-used

Submissions are easy to navigate

## Problem: what if you have multiple versions of an assignment?

Need to manage each version as an individual assignment

- Download/sync grades from each version independently
- Review regrade requests independently for each version
- No way to quickly identify students that lack a submission



## Solution: Multi-Version Assignments feature

- Allows you to group multiple versions of the Assignment into an Exam Version Set
- Download grades, publish/unpublish grades, manage regrade requests for all included versions as a set
- All exam scores in the set synced with the same Canvas grade item
- Available for Exam or Homework Assignments that are instructor-uploaded (not student-uploaded)
- Different versions can have different \# of questions, different content

I decided to experiment with Gradescope MultiVersion Assignments feature in Spring 2023


## Limitations of the Multi-Version Assignment feature

- Not (yet?) possible to map a specific question from one version to another version (e.g., for merged grading or question stats)
- Not (yet?) possible to copy/import a set of question rubrics into multiple versions at once (must import rubric items question-byquestion, version-by-version)



## How to set up a multi-version assignment

- Create your assignment forms; save as pdf

Time-saving tip: Name each Assignment with the version

- Create an assignment
- Type: Exam/Quiz
- Name (include version identifier)
- Upload pdf template
- Instructor upload



## Create Name Region and ID Region

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## Create question boxes for each gradable unit


Create questions and subquestions via the + buttons below, or by
dragging boxes on the template. Reorder and indent questions by
dragging them in the outline.
\# Title
1 Match microbes
1.1 B
1.2 D
2 The Wrinkled Peach

Time-saving tip:
Title the questions with the starting text (will help you find the matching question on the next version) or the correct answer (helps match grouped simple text with rubric items)

## Assign graders to specific questions

Time-saving tip:
Assign questions using the outline (may want to remove names before Publishing it to protect them from student ire)

Outline for Example multi-version exam vA
9 points total

Edit Name Region
Edit ID Region

Create questions and subquestions via the + buttons below, or by dragging boxes on the template. Reorder and indent questions by dragging them in the outline.
\# Title
Points

1 Match microbes4
1.1 B - Margaret 2
1.2 D - Mark

2
2 The Wrinkled Peach - Andy 5

+ New Question


## Create additional versions

Duplicate the first version of the assignment

Time-saving tip:
Make all copies of your assignment BEFORE creating the rubric for any version

Duplicate an Assignment
Select an assignment to copy to this course and name the copy.

* Required field

Gradescope 202
Spring 2022
Demo Online Assignment
Demo Programming Assignment
Demo Quiz

Example multi-version exam vA

Gradescope Tutorial
Spring 2017

Assignment Examples

Copied Assignment Title *
Example multi-version exam vB

## Organize Exam Versions

# Group all versions into a set (in an exam container) 

* Required fields

Add Exams to a Version Set *

| Version A | Example multi-version exam vA |
| :--- | :--- |
|  |  |
| Version B | Example multi-version exam vB |

## + Add Version

Exam Version Set Title *
Example multi-version exam

## View of exam versions \& container

## all gradescope «三 <br> Gradescope 202

Advanced Gradescope Features

를 Dashboard
目 Assignments
Roster
© Extensions

* Course Settings

Instructor
Miriam Markum

5 Assignments


## Replace the template and create the Name Region and ID Region for all copied versions

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Example multi-version exam vB

Version B
. Edit OutlineCreate RubricManage ScansManage SubmissionsGrade SubmissionsReview GradesRegrade RequestsStatistics
© Settings

## Edit Assignment

Basic Settings

* Required field

Title *
Example multi-version exam vB

Template
囹 MIC_102_SQ23_Final_Exam_vA.pdf

## Who will Upload Submissions?

- Instructor


## Submission Anonymization

$\square$ Enable anonymous grading
Hide identifiable student information from being listed with submissions

## Canvas Assignment

A No Canvas course linked. (edit)

## Grading Defaults

Default Scoring Method

- Negative scoring

Positive scoring

## Reposition the copied question boxes to the correct location in each copied version.

(teeeedious if many questions!)

Time-saving tip:
Drag all boxes to be moved to the edge of pages they don't belong on. Be careful not to resize the boxes.

## 1. (2 pt each) Match each set of features with the microbe it best describes

 $B=$ Bacterium $\quad C=$ Fungus $\quad D=$ Protozoan $\quad E=$ Virus

Multidellular, pro-inflammatory, performs sexual and asexual reproduction
___ Buds during replication, genome encodes RNA-dependent DNA polymerase
__ Fixes nitrogen, 70 S ribosomes, phospholipids have ester linkages
___ Performs co-transcriptional translation, not sensitive to antibiotics
___ Photosynthetic, single-celled, translates using formyl-MetNo cell wall, amoeboid motility, in the domain Eukarya
__ Ancestral cell gave rise to eukaryotic progenitor, monolayer membrane
__ Nonmotile, outer layer is membrane, has no proton motive force
2. ( 5 pts ) Jess inoculated two identical flasks of nutrient broth with same number of Proteus vulgaris cells. She then incubated the flasks and measured the turbidity (optical density, O.D.) as the cultures grew over time. At the time indicated by the arrow, she made a single change to Flask B ONLY.


## How to get exam forms into Gradescope?

- Sort paper forms by version
- Chop/cut off stapled edge
- Scan using high-throughput scanner
- Scanner available at the UE Testing Office
- Upload scanned files into correct Assignment version in Gradescope



## Confirm that all students who took the exam are matched with a submission

## Manage Submissions

On this page you can assign names to student submissions, replace individual submission PDFs, and remove submissions. Use the tab key to quickly go through the name assignment fields. If something does not look right, you can turn off automatic roster matching.

177 Submissions $\equiv 30 / 506$ Students Have Not Been Matched
All 163 Auto-Assigned 0 Unassigned $\underline{\text { Q Search by name }}$

All Assignment pages are now in Gradescope and linked to a student in the roster.

Let the grading begin!

ill

Time-saving tip:
$1^{\text {st: }}$ Grade all submissions for just ONE version.
$2^{\text {nd. }}$ QC/refine the question rubrics.
$3^{\text {rd }}$ : Import question rubrics into the other versions and complete the grading.

## Build your rubric (create, import)




Time-saving tip: Import default rubric items for expected issues (e.g., unanswered questions, Talk with Dr. M, Flag for similarity, etc)

## Statistics, Review Grades

Statistics (by version; overall descriptive stats or by question)

| 1: Matchy microbes <br> $\vdots$ <br> $\cdots \cdots . .1 .1: B$ | 16.0 points |
| :--- | :--- |
|  | 2.0 points |

Review Grades (by version or all versions)


## To Post All Grades to Canvas

| Post All Grades to Canvas |  |  |
| :---: | :---: | :---: |
| Instructions <br> - Grades from linked users' submissions will be posted to the Canvas assignment listed below. <br> - Existing grades in Canvas (for linked users) will be overwritten. |  |  |
| Linked Canvas Course <br> No Canvas course linked. (edit) |  |  |
| Linked Canvas Assignment <br> No Canvas assignment linked. (edit) |  |  |
| A There are no grades to post. To post grades, sync your roster and grade the linked users' submissions. |  |  |
|  | Close | Post Grades |

## Wait for the regrade requests to roll in!

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Time-saving tips:
Don't review regrade requests until after the end
date and instruct your grading team to do the same.
Shut off Regrade Request
Notifications in your
Gradescope account.
Require students to include a description of the correct answer with their request to qualify for a review.

## Takeaways

$\checkmark$ Gradescope is a fantastic grading tool
$\checkmark$ Especially critical for high-enrollment classes with short-answer assessments
$\checkmark$ The Multi-Version Assignments feature
$\checkmark$ Will be very useful for instructors with multiple versions of assignments who want the scores synced to the same Canvas grade item
$\checkmark$ But is not yet an efficient tool to grade Assignments in which versions are created by rearranging questions

Questions, suggestions, wonderments?


