Gradescope for Assessment of On-Paper Assignments and Tests

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TODAY’S AGENDA

• Benefits of Gradescope
• Exams & Quizzes vs. Homework & Problem Sets
• Setting up
  – Access Gradescope
  – Link to CourseLink course
• Creating an exam/quiz
  – Edit outline
• Creating a homework/problem set
  – Edit outline
  – Submission types
• Assessment Process
• Review & Release Grades
• Faculty Gradescope Experience (W22 Pilot)
  – Tricia van Rhijn, Department Chair & Associate Professor, FRHD
• Support Options
• Question & Answer Period (optional)
BENEFITS OF GRADESCOPE
### Benefits of Gradescope

<table>
<thead>
<tr>
<th><strong>Efficient grading process</strong></th>
<th><strong>Statistics</strong></th>
<th><strong>Integration with CourseLink</strong></th>
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<tbody>
<tr>
<td>• Al-assisted grading</td>
<td>• Assignment- and question-level analyses</td>
<td>• Easily accessible by both students and instructors</td>
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<tr>
<td>• Answer grouping</td>
<td>• Note common learning gaps</td>
<td>• Grade transfer</td>
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<tr>
<td>• Allows for more fulsome feedback for students (rubrics &amp; annotations available for every question)</td>
<td>• Recognize which learning objectives have been successfully met</td>
<td>• Roster sync</td>
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<td>• Consistency between evaluators’ comments</td>
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<tr>
<td>• rubric/comment sharing</td>
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<td></td>
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<tr>
<td>• ability to mark one question across submissions before moving onto next question</td>
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<td></td>
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<tr>
<td>• anonymous grading option</td>
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**OpenEd**

**Open Learning and Educational Support**
EXAMS & QUIZZES VS. HOMEWORK/PROBLEM SETS
EXAMS & QUIZZES

- Ideal for paper tests given in class
- Scanned and uploaded by instructor
HOMEWORK & PROBLEM SETS

- Ideal for handwritten homework
- Uploaded by students

Upload blank copy of homework → Students submit work → Grade work
DIFFERENCES

**Exams/Quizzes** - uploaded by instructor, recommended for in-class assessment

**Homework/Problem Sets** – uploaded by students, recommended for take home assignments
SETTING UP: EXAMS/QUIZZES

Note: The CourseLink integration process is the same for Exams/Quizzes and Homework/Problem Sets.
**ACCESSING GRADESCOPE**

- Gradescope can be accessed in two ways:
  1. Via the CourseLink Integration (Content tool)
  2. Directly via gradescope.ca using SSO
ABOUT GRADESCOPE’S COURSELINK INTEGRATION

• The CourseLink Integration allows you to:
  – **Connect** your course site to an **existing** Gradescope course/assignment or **create a new** Gradescope course/assignment
  – **Sync** your CourseLink “Classlist” to the Gradescope “Roster”
  – Automatically **create** grade items associated with the Gradescope assignment in CourseLink’s Grades tool
  – **Export** scores from Gradescope assignments to their associated CourseLink grade item
ACCESSING GRADESCOPE VIA SSO

• The Gradescope SSO login allows you to:
  – Create a new Gradescope course/assignment
  – See and manage any Gradescope courses/assignments you have at UofG
    • Includes those created through the CourseLink integration

• To get the most out of Gradescope, the integration is recommended
CREATING AN EXAM/QUIZ

Gradescope

Add dates and restrictions...
Add a description...

Create Assignment

ASSIGNMENT TYPES

Exam / Quiz

Homework / Problem Set
Bubble Sheet

Programming Assignment
Online Assignment

Exam / Quiz

Instructors administer an assessment then collect and scan student work. Students answer each question in designated regions.

Learn More
Note: The assignment name will be visible in CourseLink (Content & Grade Item).
Recommendations for Exams/Quizzes when using the CourseLink Integration

- **Hide** the content module or item for final exams
  - You will maintain access, but students won’t see the link, which can avoid confusion (when not providing feedback through Gradescope)
- Otherwise, keep the module **visible** so students can review feedback
RECOMMENDATIONS FOR EXAMS/QUIZZES WHEN USING THE COURSELINK INTEGRATION

• Go to Manage Grades after creating the exam/quiz assignment to hide the grade item Gradescope creates and adjust its max points value (defaults to 1)
  – If you are unsure of your max points value, come back and adjust when you know (before exporting)
Recommendations for Exams/Quizzes when using the CourseLink Integration

- If it is your first/only Gradescope assignment, be sure to access Gradescope and **sync the Roster with the Classlist**
  - If you do this early in the semester, you may want to re-sync closer to the assessment to ensure you have the most up-to-date roster on Gradescope
DEMO

• Setting up the CourseLink integration
• Creating an Exam/Quiz
• Hiding the content module/content item
• Hiding the grade item/adjusting max points
• Accessing Gradescope from Content
• Importing the CourseLink Classlist to the Gradescope Roster
CREATING AN EXAM/QUIZ
EDIT THE OUTLINE

- Presented with the PDF template uploaded during the creation phase
- Indicate **Name** and **ID regions** for assigning names to submissions
- Indicate where you expect students to answer each question
**EDIT OUTLINE – NAME AND ID REGIONS**

- Drag and resize yellow boxes to mark the name and ID regions.

**Tips:**
- When designing your exam template, try to ensure the name and ID regions won’t overlap.
- Provide an underline space (______________) to help make sure students enter their names where you have set the region boxes.
- Avoid the top-right corner for these regions (should you decide to enable labelled printouts).
**EDIT OUTLINE – ADD QUESTIONS**

- Questions indicated by green/grey boxes
- Add to template using the *+ new question* option or clicking and dragging on the PDF itself
EDIT OUTLINE – ADD QUESTIONS - TIPS

• If you replace your template file (e.g., to correct an error in a question), your questions regions will be preserved.

• During grading Gradescope will automatically zoom to the question region you set, so it is helpful to make the regions slightly larger to save time zooming out.
Printing

- Gradescope supports two options for creating exam booklets:
  - Print copies of a standard template booklet (i.e., print multiple copies of the exam as you normally would).
  - Print and subset staple labelled booklets (beta).
Labelled Printouts (beta)

- Uses the page labels to automatically group the pages of each student's submission together, no matter the order they were scanned or uploaded in.
- Helpful for larger courses to ensure exam booklets stay together.
LABELLED PRINTOUTS - CONSIDERATIONS

• The label is placed in the top, right corner of every page
• Ensure this space is left blank so that nothing overlaps the label
• Consider the impact for double sided printing
  • e.g., removing staples/cutting off corners
DEMO

- Edit Exam/Quiz outline
  - Add name/ID regions
  - Create question regions
Creating a Homework/Problem Set

Note: The CourseLink integration process is the same for Exams/Quizzes and Homework/Problem Sets.
CREATING A HOMEWORK/PROBLEM SET
Mandatory fields
<table>
<thead>
<tr>
<th>Optional fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assignment Type</strong></td>
</tr>
<tr>
<td>- Homework / Problem Set</td>
</tr>
</tbody>
</table>

| **Assignment Name** |
| Name your assignment |

| **Template** |
| Please select a file | Select PDF |

| **Submission Anonymization** |
| Enable Anonymous Grading |
| Hide identifiable student information from being listed with submissions. |

| **Who Will Upload Submissions?** |
| Instructor | Student |

| **Release Date (EDT)** | **Due Date (EDT)** |
| Click to set date & time | Click to set date & time |

| **Allow Late Submissions** |
| Late Due Date (EDT) | Click to set date & time |
| Maximum Time Permitted (Minutes) |

| **Enforce time limit** |
| Maximum Time Permitted (Minutes) |

| **Submission Type** |
| Variable Length |
| Students submit any number of pages and indicate the pages where their question responses are. |
| Templatized (Fixed Length) |
| Students submit work where answers are in fixed locations (like worksheets). |

| **Group Submission** |
| Enable Group Submission | Limit Group Size | No Max |

| **Create Your Rubric** |
| Before student submission |
| While grading submissions |

| **Template Visibility** |
| Allow students to view and download the template |
NOTES ON SUBMISSION TYPE

SUBMISSION TYPE

- Variable Length
  Students submit any number of pages and indicate the pages where their question responses are.

- Templated (Fixed Length)
  Students submit work where answers are in fixed locations (like worksheets).
Questions can be delivered anywhere - in class, through CourseLink, through Gradescope.

Students use as many pages as needed to answer the questions and either take pictures to submit for each question or upload a PDF and indicate which pages contain the answers to which questions.
TEMPLATED (FIXED) LENGTH

• Hand out the worksheet in class/make the template downloadable for students.
• Students submit PDF of work.
  – Students can scan themselves (if they have a scanner) or use apps on their phone to convert an image to a PDF.
  – App to simplify this process is coming.

Solve the equations below by factoring:

1. \( u^2 - 5u - 14 = 0 \Rightarrow \) ____________

2. \( x^2 + 15x = 0 \Rightarrow \) ____________

3. \( z^2 - 16z + 61 = 2z - 20 \Rightarrow \) ____________

4. \( 12x^2 = 25x \Rightarrow \) ____________

5. \( t^5 = 9t^3 \Rightarrow \) ____________
DEMO

• Create new homework/problem set
  – Variable length
  – Set release and due dates
    • Edit the outline
      – Name questions

Note: Creating a templated (fixed) length outline is similar to creating an exam/quiz.
  • Edit name/ID region
  • Create question regions
ASSESSMENT PROCESS
**Grade Submissions – Exams/Quizzes**

- **Note:** Although our examples are based on the exams/quizzes assignment type, the assessment process is similar for homework submissions.
Grade Submissions

- Designed to grade by question
- Option to enable anonymous grading
- Rubric grading system
  - Both positive and negative scoring rubrics are available
  - Can import a rubric from a previous assignment/question or build on the fly
  - Rubric items support Markdown and LaTeX
- Commenting and annotations are available
• To begin grading, click on the name/number of the question you want to start with

• Tip: Adding a question name during the Edit Outline phase makes it much easier to select the question for grading

Grading Dashboard

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: T/F 1</td>
<td>10</td>
</tr>
<tr>
<td>2: T/F 2</td>
<td>10</td>
</tr>
<tr>
<td>3: T/F 3</td>
<td>10</td>
</tr>
<tr>
<td>4: T/F 4</td>
<td>10</td>
</tr>
<tr>
<td>5: T/F 5</td>
<td>10</td>
</tr>
</tbody>
</table>
**SELECT GRADING METHOD**

- **Note:** AI-assisted grading only works with templated assignments (can be an exam/quiz or homework)
AI ASSISTED GRADING – ANSWER GROUPS

- AI attempts to categorize all answers
- You confirm the groups are accurate
- Option to provide a name (e.g., a group named “True”)
GRADING WITH A RUBRIC

- Build entire rubric when you start grading or build on the fly
- Apply item by clicking on the number or using the number keys on your keyboard
- Entire grading team has access to rubric
- Next ungraded will take you to the next exam needing an assessment
**IMPORT A RUBRIC**

- Can import a previously created rubric from any other course/assignment/question
ANNOTATIONS

• Freeform (pencil) and text options available
• Can associate rubric items with comments
• Can reuse comments
DEMO

• Grade Submissions
  – Grade Exam/Quiz
    • AI assisted grading
    • Grading with a rubric
      – Adjust to positive/negative scoring
    • Commenting and annotation options
REVIEW & RELEASE GRADES
• Histogram of class results along with some basic statistics
• Below is a sortable list of all students and their grades
**EXPORTING GRADES TO COURSELINK**

- To send the scores from Gradescope to CourseLink, simply click the Post Grades to CourseLink button
  - Remember to ensure the max points of the grade item matches the score total for the exam/quiz
  - If the grade item is hidden, students will not see their score or receive a notification

![Post Grades to CourseLink](image)
**Publish Grades**

- Provides students with access to their exam/quiz paper and the rubric items through Gradescope
- Once grades are published:
  - Indicator in top right corner says **Grades Published**
  - Bar at bottom now has option to **Unpublish Grades**
  - Option to **Compose Email to Students** to notify them
- **Note**: This feature should not be used for final exams
17. A certain function $y = f(x)$ satisfies $f(0) = -1$, $f'(0) = 2$.
(a) Determine an equation for the tangent line at $x = 1$.
(b) Find $x$ and $y$-intercepts of the tangent line.

(c) Graph the tangent line.
**Regrade Requests**

- Possible once grades are published within Gradescope.
- Allows you to easily collect requests in a single dashboard and respond.
- Regrade requests are made by students per question, and they must provide an explanation for the request.
- Option to fully disable or enable for a specific window of time (enabled by default).
Statistics

- Easily view how students performed on each question compared to the assignment mean
- Pull out questions/topics for in-class review
Statistics — by Tag

- Statistics can be sorted by custom Tags you create!
- Can help to identify content or learning objectives where student performance differed greatly from the average
GRADESCOPE SUPPORT
**GRADESCOPE PROGRAMMING**

**Past Sessions** (recordings and slides available):

- Get to Know Gradescope Series (W22)
  - Introduction to Gradescope
  - Introduction to Bubble Sheets
  - Introduction to Exams/Quizzes
  - Introduction to Homework & Problem Sets
  - Introduction to Online Assignments

- Introduction to Programming Assignments (May 6th)
GRADESCOPE PROGRAMMING: S22 SESSIONS AND SUPPORT

Ongoing Sessions:
• Online Gradescope Drop-Ins (via Zoom)
  – Tuesdays (10-11 am)
  – Wednesdays (2-3 pm)
• Weekly Online Workshop (Run by Gradescope)
  – Thursdays at noon

Monthly Sessions
• Prepare for Gradescope Bubble Sheets
  – July 14, August 18
GRADESCOPE PROGRAMMING: S22 SESSIONS AND SUPPORT

Other Gradescope Programming

• Gradescope for Assessment of On-Paper Assignments and Tests (this session)

• Transitioning from Crowdmark to Gradescope for On-Paper Assessments (June 28)