Designing digital assessments and exams using Canvas
Our panel!

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Outline

- Some principles
  - General assessment design
  - High stakes assessments
- Specific approaches
  - Open book
  - Math questions
  - Exams
- Case Study
- Panel Discussion

Context

- Summative / High stakes
- Short term / Long term
- Scale
Some principles
### ASSESSMENT DESIGN PRINCIPLES

1. With learning outcomes - are they measurable?
2. Constructive alignment

- "An assessment requiring students to use the same competencies, or combinations of knowledge, skills, and attitudes that they need to apply in the criterion situation in professional life"  

<table>
<thead>
<tr>
<th>Design Assessment First</th>
<th>Scaffolding</th>
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<td>Authentic</td>
<td>Assessment for Learning</td>
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| Accessible & Inclusive |

- Formative + Summative
- Continuous and gradual
- Develops transferable skills

- What does the student learn by completing this task?
- Assessment teaches students, either through act of completing assessment, or from feedback

- Different abilities, learning needs, culture
- Digital divide

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Student is who they are + doing it by themselves

As secure as current means
- Human online Proctoring
- AI proctoring
- Lockdown browser

Human verification that is efficient for marker and adds value to student
- Live video check-in
- Student interview/video post submission

More options than paper-based exams

- Optimise to reduce marking time, improve feedback, communication with student
  - Automatically graded quizzes + subjective submission
  - Written / video submissions with feedback bank

Reduce anxiety, increase student satisfaction

If students feel they can succeed on their own, less likely to cheat
Specific examples
(poll on assessment types)
Where/When possible, Redesign Assessment

- Authentic
- Personal (reflective, constructive)
- Ongoing & scaffolded
- Creates meaningful artefacts (portfolio, blog, LinkedIn)
- Collaborative element

- Short regular assessments (quizzes, reflections, text, video)
- Graded discussions (scaffolded into larger submissions)
- Create work designed with value outside the curriculum (employment, personal, community)
- Flexibility (longer submission window, submission types, topics)
Essays / Open book exams

- Assignment submission + video interview / response to verify work
- Video quiz (questions posed in video, students respond with video)
- Collaborative work (leverage Canvas groups, peer review, graded discussions)

- Mostly equivalent or better
- Integrity improved with video, assessment personalisation
- Digital literacy support
\[ E = mc^2 \]

Mathematical Calculations

- Automated quiz to process answers + submission of photograph of processes
- Presenting work - video explanation of reasoning (speaking over slides of working)

- Poorer if testing understanding of formulas, can be better if also testing application
- Potentially better experience - quick feedback
- Digital literacies support
- Gradescope
Online Exam

- Live identity verification
  - possibly recorded
  - “Waiting room”
- Secure quiz - Random order of questions, shuffle answers, question banks
- Diverse question types + video (test higher order thinking)
- Video verification - student submits short videos expounding on previous questions (e.g. “based on your answer in B, how will it change if X”)
- An exam “module” in Canvas

- Equivalent integrity, depending on verification approaches
- Better learning experience
- Student support - training, mock exams
Online Exam

Module: Final Exam

HONOUR PLEDGE

Quiz 1: 30 Fixed answer questions (MCQ, matching, drop down)

Quiz 2: 5 short answer questions (Application, analysis, rich media)

Quiz 3: Video Response 1

Quiz 4: Video Response 2
Student Success = Exam Success

● Exam taking skills will change
  ○ Exams are stressful in best of times. Unknown models
    + bandwidth fears = stress
  ○ Transparency - clear approach, mock exams
  ○ Online exam support resources and workshops

● During exam support

● Common tools and processes - uniform expectations & skills
  for students and staff
Case Study: City U HK + HK U

City University Hong Kong
- 2000 Students taking an exam simultaneously
- Using both Canvas Quizzes and Canvas Assignments
- ~1200 using Assignment Submission within a 5 minute period
- Submissions might be 6-10 MB per file

Hong Kong University of Science & Technology
- Mid Term exams currently taking place
- 500 students per exam using Canvas Quizzes
- Zoom for authentication & Respondus Lock Down Browser
Resources

- Quiz settings to maximise security
- Use availability dates to lock assignment
- Transforming assessment ASCILITE Special Interest Group
- Deakin guide to Authentic Assessment
- Implementing proctored assessments at scale (UNE)
Panel Q&A

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