UBC Forestry

An Overview of Learning Technologies

Commonly Used Tools

- Online course platform:
    - Canvas Course content sharing, assignment submission, group discussion, and quizzes/exams creation; integration with multiple online learning tools
- Online meeting/webinar/conferences:
    - Zoom Breakout rooms, polling, nonverbal communications & feedback, high number of participants, and security (passcode or waiting room)
    - Microsoft Teams for holding office hours, video meetings, and phone calls; running lectures and presentations
- Group work and online discussion
    - Microsoft Teams for class/group collaboration
    - Microsoft OneDrive for synchronous document sharing, creation and collaboration during group work
- In-class activities (e.g., polls, quizzes, study games, etc.)
    - Zoom polling, reactions, and on-screen annotation
    - Piazza robust online question-and-answer sessions; written discussions among students, TAs, and instructors
- Video recording, streaming, and editing
    - Record/Stream at home
        i. Camtasia video creation and presentation recording with fundamental video/audio editing functions
        ii. Kaltura for video hosting, streaming, and basic editing; creation of interactive videos that can be embedded on Canvas; It is recommended to upload and share videos on Canvas through Kaltura
        iii. MS PowerPoint Recording for recording presentations/lectures with narrations iv. Zoom Cloud Recording for recording Zoom meetings and publishing on Canvas
    - Record/Stream at UBC Forestry
        i. One-Button Studio a designated space within Faculty of Forestry for DIY lecture/presentation recordings

- Online assignment, grading, and assessment
    - Canvas Assignments can use peer reviewing & rubric grading
    - Zoom Canvas quizzes can be delivered during synchronous sessions using live invigilation

- Lockdown Browser restricts students' access to internet and applications during a quiz in Canvas; can be used with Zoom to realize web-conferencing invigilation students' exam video, audio, screen, and/or keyboard activity
- Turnitin for academic integrity checks; need to request an account first

- Leaning Analytics
  - Canvas New Analytics produces weekly online participation analytics and course grade analytics of students
  - Kaltura Analytics produces audience analytics, user analytics and so on to provide indepth, granular data and actionable insights on their audience engagement and video usage

- Peer Review
  - Canvas peer review function in the assignment and discussion
  - iPeer for peer review of the group collaboration process; need to request an account first
  - PeerWise for peer review of study questions with a gamification edge; students can create questions and then answer, rate, and comment on questions submitted by their peers
  - peerScholar for peer review of work using highly customizable rubrics; can realize multiphase assignments
  - ComPAIR for peer assessment and feedback; students can compare and respond to other students' answers

- File Sharing and Storage
  - Microsoft OneDrive Folder structure mirrors Microsoft Teams structure

- Online survey
  - Canvas quizzes in Canvas can be set up as surveys
  - Qualtrics FIPPA-compliant customizable online surveys with templates, question randomization, branching, and more; produce survey reports with basic analysis

Other Tools

- Online course platform:
  - Canvas Catalog Self-paced learning platform for continuing education, professional development, etc.
  - edX Sharing of course content and creating online assignments and tests
  - UBC Blogs An interactive web-based platform for the sharing of course content, online assessments, and student blogs/portfolios
  - UBC Wiki Content sharing and editing; online collaborative writing with tracked revisions

- Articulate 360 for interactive content/module creation; please contact TLS if interested
- Group work and online discussion
  - Mattermost for online collaboration through chatting, file sharing, and real-time communication (NOT free for instructors)
- In-class activities (e.g., polls, quizzes, study games, etc.)
  - iClicker Cloud for in-class quizzes with instant responses and results
  - Respondus Studymate A desktop software that facilitates the creation of learning games and activities (e.g., flashcards, self-quizzes, and crosswords)
- Video recording, streaming, and editing
  - Record/Stream at home
    i. Collaborative Learning Annotation System (CLAS) An online media player for annotated discussion of video lectures; students and lecturers can comment on the videos based on the timelines
    ii. Snagit to capture, modify, markup, and share screenshots and basic video captures of their computer screens; finished projects can be saved as images or PDFs
    iii. VideoScribe An animation software to animate text and an extensive library of shapes and images on a digital whiteboard; require licenses to use
  - Record/Stream at UBC
    i. Lightboard A lecture-capture tool for users to create short videos while writing or drawing on a board of illuminated glass in front of them
- Online assignment, grading, and assessment
  - Webwork for assigning numeric problems and equations as homework or quizzes
  - Respondus Quiz mainly used for the assessment of teaching materials through quizzes
  - Gradescope for managing instructional team grading; produce feedback and analytics
- Leaning Analytics
  - OnTask Learning analytics-driven automated feedback for students; personalized instructions based on outcomes of learning activities
- Library
  - Library Online Course Reserves (LOCR) to request course materials and students can get access to those materials via links integrated in Canvas courses