



COESP

Biology Education Guelph

LECTURE CAPTURE: in your pocket
November 13 – 12:30 to 1:30 | **SSC 1504**



WONDERING HOW TO PROVIDE **LECTURE CAPTURE** FOR YOUR STUDENTS?
Come learn how to unlock the power in your smart phone and start today!

Lecture Capture and me



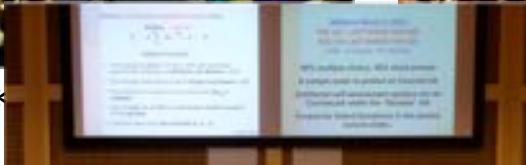
MCB*



C*2



BIO*1090 F12



B



BIOC*2580 F13



BIOC*2580



W13



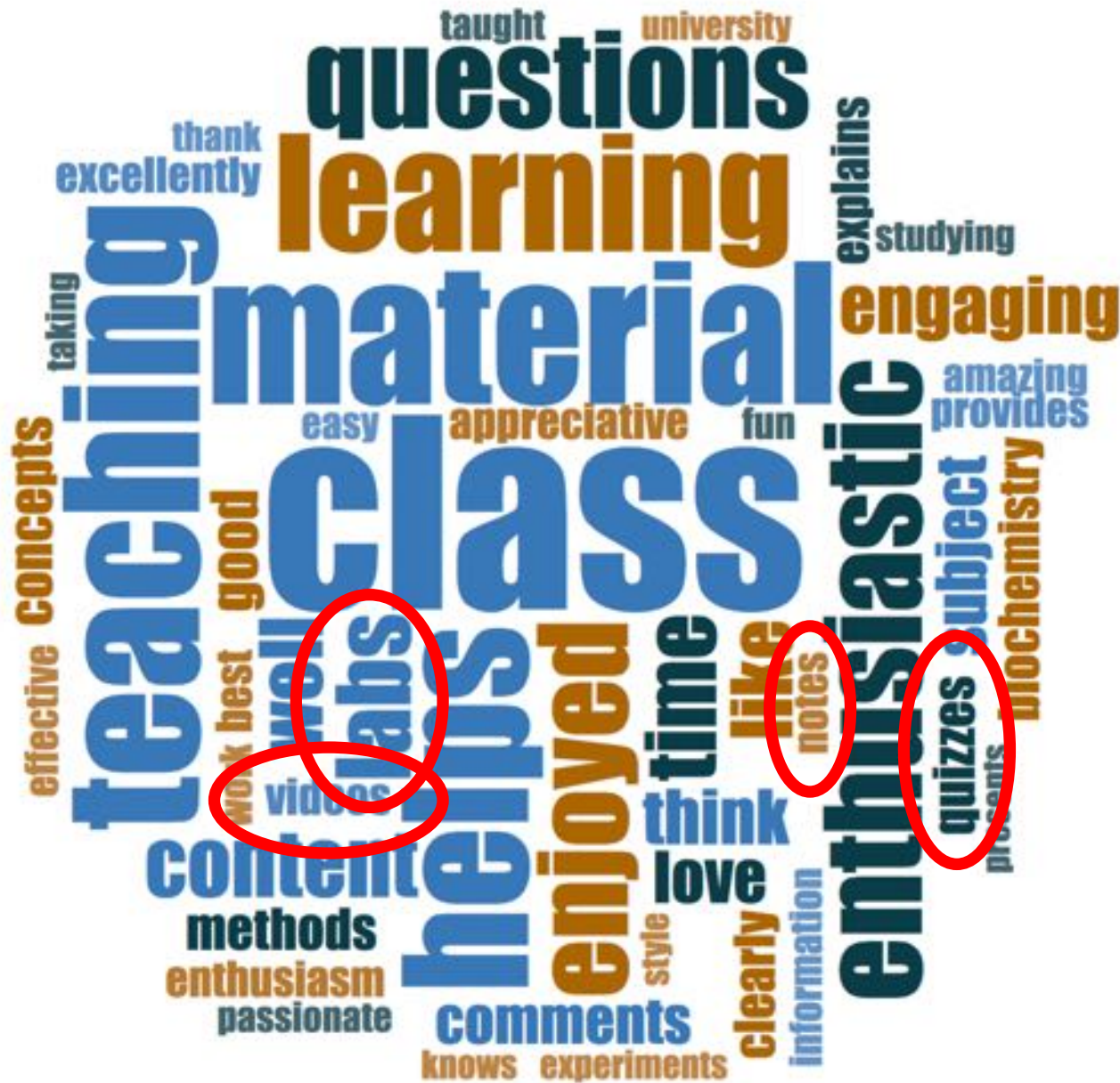
BIOC*3560 F16



4580 W16



BIOC*2580 F17



lectures posted online in
in the exact same way on

Posting

He posts his lectures before hand and
I also really loved the high - quality
that stands out is how Prof . Dawson

the

amazing to be able to check
rewatch
I really like that he does
lectures again as well as pause
I really value
I really hope that
Dr . Dawson even posted
the fact that we have access to
He also provides full

video

, so I could refer back to the

/ lecture capture is an AWESOME tool

capture

continues in the second half of
of lectures so that you can

captures he uploaded to courselink .

documentation of his lectures , in case my

if there was anything you missed in

lectures

I live in Kitchener and on
were very beneficial

of

his lectures to Courserlink

lecture

was very helpful when reviewing

recording of his lectures

recordings of

lecture are extremely helpful for
the lecture is extremely helpful !

tapes

his lectures (which a lot of
our lectures so that we can

to take extra notes .

Benefits to Students

- Finding something they missed in class – maybe they were distracted
- Reviewing specific concepts
- Reviewing for exams

Attendance??

- Time of day preferences
- Commuting students

Benefits to me

- Improve my practice
- Analytics
- Dramatically decreased my office hours

But I don't know how

Outcomes for today

- Name how students perceive / use lecture capture
- Have an understanding of the different types of course-related videos
- Determine the qualities of a good lecture capture
- Know the parts of a simple lecture capture system
- Learn how to use your smart phone for lecture capture

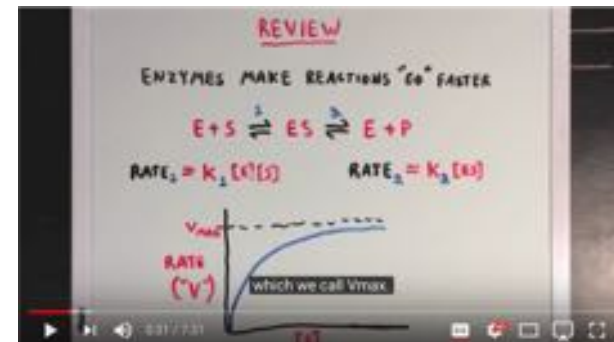
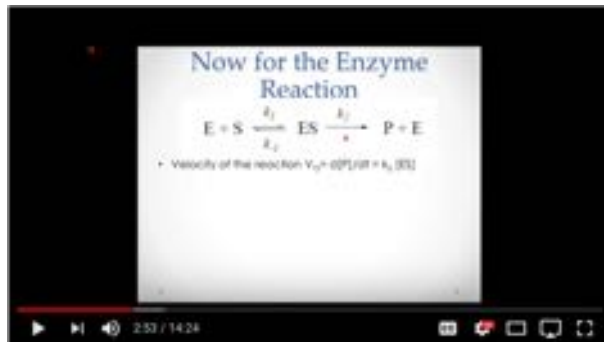
Have you made videos
for your classes?

Two types of videos out there

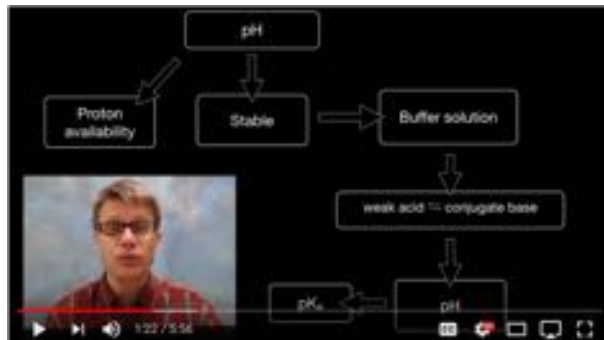
Tutorials

Lecture Capture

Tutorials



Screen Capture



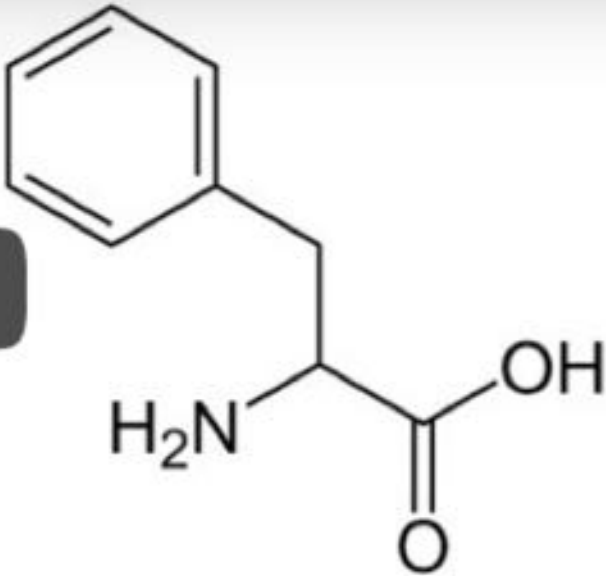
Pre-lab



Tutorials

Amino Acids

aromatic side chains



The chemical structure of phenylalanine is shown, featuring a benzene ring attached to a side chain. The side chain consists of a methylene group (-CH₂-) connected to a chiral carbon atom. This chiral carbon is also bonded to an amino group (-NH₂) and a carboxylic acid group (-COOH). The carboxylic acid group is shown with a double bond to an oxygen atom and a single bond to a hydroxyl group (-OH).

phenylalanine

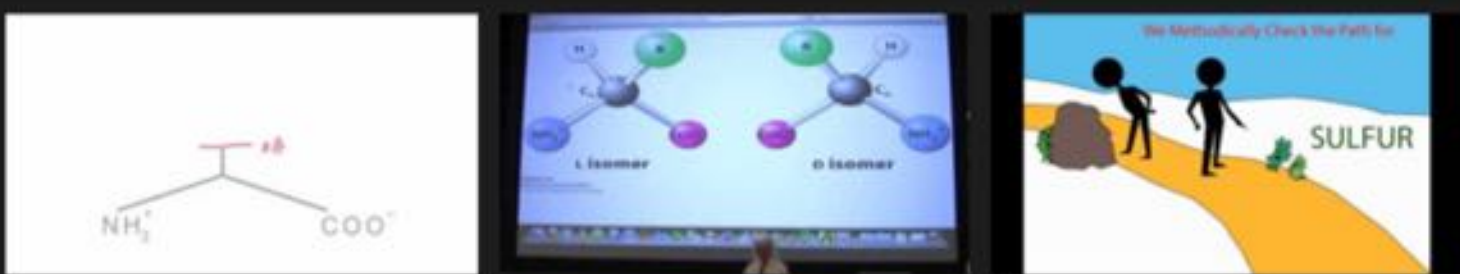
The Academy of Lecture Capture Arts and Sciences

Rate the Lecture Capture Videos



Lecture Capture #1

AMINO ACIDS & PROTEINS by Professor Fink



The video player displays three panels. The left panel shows the chemical structure of an amino acid with a central carbon atom bonded to a hydrogen atom (H), an amino group (NH_3^+), a carboxylate group (COO^-), and a variable side chain (R). The middle panel shows a 3D model of the L and D isomers of an amino acid, with the L isomer on the left and the D isomer on the right. The right panel shows a cartoon of two stick figures walking on a path, with one figure pointing to a sign that says "SULFUR".

3:31 / 40:27

CC Settings YouTube

Lecture Capture #2

Lecture 1 - Introduction to Biochemistry

The video player shows three thumbnails of lecture content. The first thumbnail shows a lecturer writing on a chalkboard with chemical structures and the text 'Genetic Code' and 'to the plane'. The second thumbnail shows a lecturer standing in front of a large projection screen displaying a slide. The third thumbnail shows two lecturers in a lecture hall, with one standing and one seated, in front of a screen displaying the UCIrvine logo and the text 'Evolution: underlying chemical biology'.

6:49 / 14:08


CC Settings YouTube

Lecture Capture #3

Click [HERE](#) to download Kevin's free biochemistry textbooks

#03 Biochemistry Amino Acids Lecture for Kevin Ahern's BB 45...

⌚ ➦



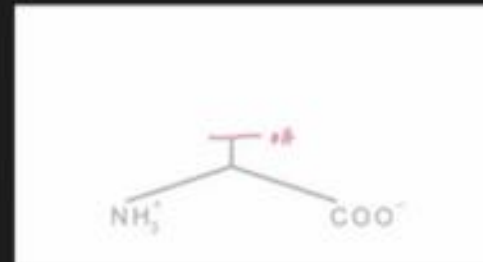
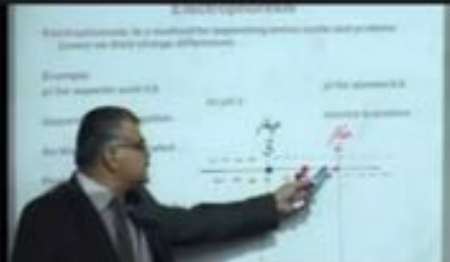
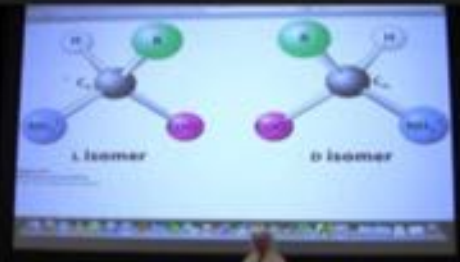
Kevin Ahern's
BB 450 at
Oregon State
University

9:22 / 47:36

CC ⚙ YouTube

Lecture Capture #4

Lecture 30 Biochemistry The Amino Acids, Peptides, and Protei...



11:41 / 50:22

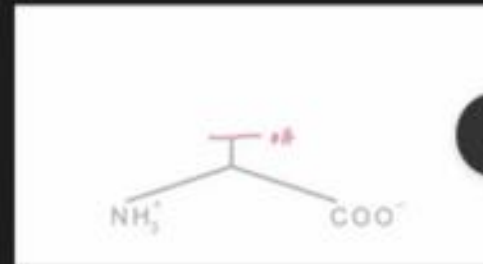
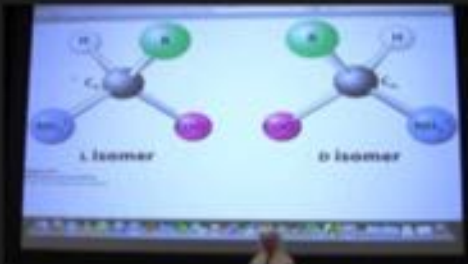


YouTube



Lecture Capture #5

1. Introduction to Human Behavioral Biology



6:30 / 57:14



YouTube

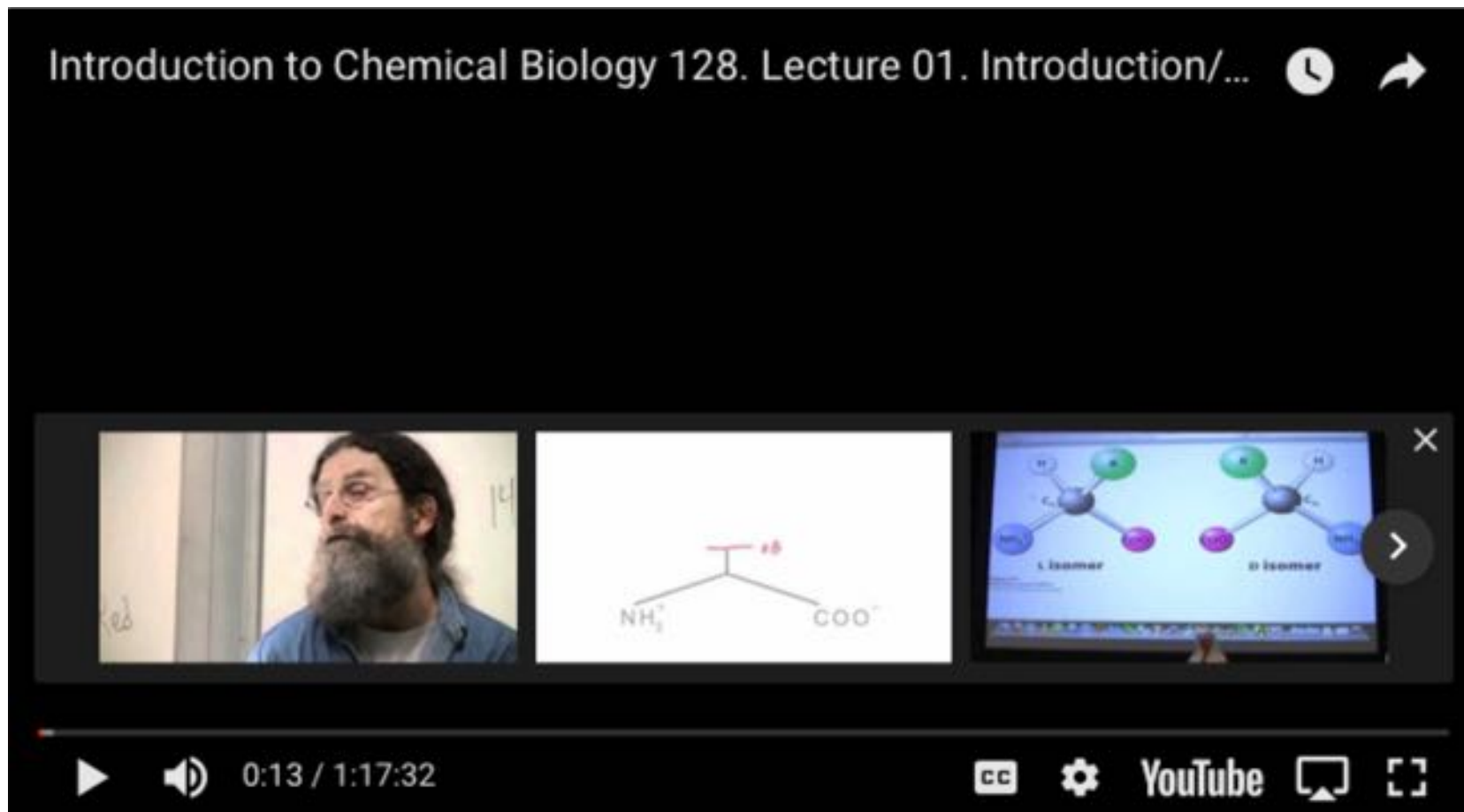


Lecture Capture #6

Introduction to Chemical Biology 128. Lecture 01. Introduction/...

0:13 / 1:17:32

CC Settings YouTube



The video player displays three panels of content. The left panel shows a man with a beard and glasses, likely the lecturer. The center panel shows a chemical structure of an amino acid, with a central carbon atom bonded to an amino group (NH₃⁺), a carboxylate group (COO⁻), and a side chain. The right panel shows a 3D molecular model of a protein structure, with atoms represented by colored spheres. The video player interface includes a progress bar, a play button, a volume icon, and a timestamp of 0:13 / 1:17:32. There are also icons for Creative Commons (CC), settings, YouTube, and a full-screen button.

Ringer #7

BIOC2580 F17 Lecture 6

MORE VIDEOS

fermer la porte vous marchez vers le coffre - fort
pièce où le gros bouton rouge est

16:53 / 1:13:19

CC BY-NC-SA YouTube

The Academy of Lecture Capture Arts and Sciences

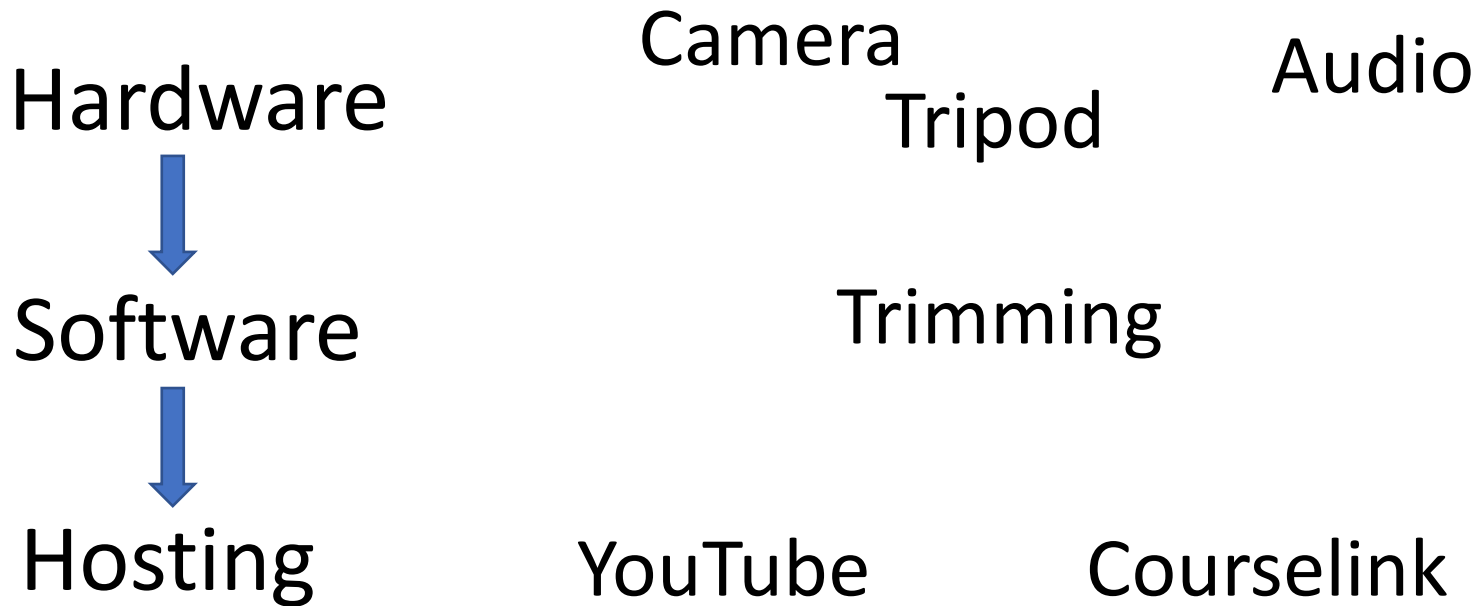
Winning Qualities:

- Clear audio of the lecturer
- Video resolution high
- Able to see what is going on
- Camerawork doesn't detract
- Without extra support



How do I *do* it?

Three things



Your smart phone

Three things

Hardware



Software



Hosting

Camera

Tripod

Audio

Trimming

YouTube

Courselink

Your smart phone

Smart Phones



Tripods and grips



Audio



Software



Hosting



- Title
- Key words
- Access level
- The link!

Advantages of YouTube

- Everyone knows how to use it
- Can handle 4K video
- Machine Translation:
 - It's pretty good now!
- Auto-translation– ESL

What do you do?

- Make all your videos “Unlisted”
- Post the link on Courselink
- Turn them to “Private” when the course is done

My preference

Use smart phone for filming and trimming

Then – transfer to your computer and upload to Youtube from there

- Maintains highest resolution video

What kind of help do
you need?

Course Improvement Grants

- Up to \$2000 for course development and improvement
 - Enhance course delivery, methods and assess outcomes
- Salaries, technology purchase or rental, software, computing costs
- June 22, 2018:
 - ADA/COESP Grants & Awards

Summary

- Lecture capture is useful to students
- Lecture capture is one form of course-related videos
- Need high quality audio and video
- Your smart phone can be the centerpiece of a lecture capture system
- You can edit and post videos straight on your phone