Classroom Technology
Or: How I learned to Stop Worrying and Love A/V
OIT Behind the Scenes
Webinar Series
Setting Expectations

- **Lights!**
  - Camera & Audio

- **Action!**
  - Participatory Activities

- **Camera!**
  - Recorded Session

- **Cut!**
  - Q & A
TODAY’S AGENDA

• Overview of technology integration in Classrooms
• About our service and delivery model
• How technology impacts Audio Visual (AV) support, design, and intersects with teaching
• Spotlight current state of technology in some of the UC Merced’s classrooms
Classroom Technology & A/V Support Overview

- 143 Academic Spaces
  - 2 Auditoriums
  - 76 Classrooms
  - 8 Computer Labs
  - 35 Instructional Labs
  - 14 Lecture Halls
  - 4 TEAL Labs

- 267 Non-Academic Spaces
  - 58 Conference Rooms
  - 45 Digital Signage Locations
  - 13 Event Spaces
  - 49 Huddle Rooms
  - 48 Lounges
  - 33 Video Conference Rooms
Classroom Technology & A/V Support Overview

**DO**

- Support clients use of the technology
- Maintain installed A/V
  - Operations
  - Repairs
  - Documentation
  - Minor Configuration Changes
- Consult on A/V Engineering & Design

**DON’T**

- Engineer A/V
- Install A/V
- A/V Outside of Campus Standards
Jodon Bellofatto
Technology Enhanced Spaces, Lead Analyst

• From Maryland (*Best state flag. Don’t at me.*)

• Nerd & Geek

• Gamer (*Any and all platforms*)

• Baseball (*Go Orioles? *sigh}*)

• Music (*currently learning guitar*)

• Sci-Fi (*Star Wars or Star Trek? Both.*)

• Disneyland (*I know. I’m just as surprised.*)
Canaan Hawks
Technology Enhanced Spaces, Technician
Start Date: September 2019

Duties Include:
- Incident ticket response & delegation
- Warehouse organization & inventory
- Leading Audio Visual Surplus/eWaste processes
- Creating graphical assets for projects

Hobbies / Interests
Ernie Montoya
CLASSROOM TECHNOLOGY SPECIALIST

• began working for UCM in June of 2016
• Krispy Kreme is my kryptonite and I’m a Star Wars fan
• Enjoys spending time with family and foster kids
Luis Zuniga
Classroom Technology Specialist

- Hired in March 2020
- Born and Live in Modesto
- Family and Friends
- Sports Junkie, Music and DIY Projects
Service Delivery

Ernie Montoya
Classroom Technology Specialist
Solving vs Fixing

• Solving the problem
• Fixing the problem
Minimizing disruption to instruction

- Sweeps
- Emergency Equipment
We approach service holistically

• Problems in the room
• What we don’t control
Spaces

Canaan Hawks
Technology Enhanced Spaces, Technician
General Assignment Spaces *(GLCR 155)*
Small simple rooms for easy instructing.

Baseline for all our AV designs:
- Main Display
- Side Display
- Confidence Monitor
- Touch Panel Controls
- Laptop Hookup
- Visual Presenter
Lecture Halls (COB2 130)
Great for just lectures and lab demos for large audiences.

Builds on Baseline:
• Larger screens
• Dual Screens
• Supplemental Recording
• Lab bench
TEAL Labs - GRAN 110
Great for student breakout groups and projects

Specialized instructional delivery:
  i. Multiple matrixed displays
  ii. Visual Presenters, Touch Panel and dry erase boards at each table
  iii. Instructor Control Center
Conference Rooms with Zoom - ADMIN 345
Simple conferencing rooms with Zoom calling from the room, allowing participants so see all the room occupants

Builds on Baseline
i. Integrated camera(s) and microphones
ii. Full touch panel control
Dr. Vikram and Priya Lakireddy Grand Ballroom
Ballroom for hosting in-person events

State of the Art Designs
i. Two Large DvLED paneled displays

ii. Zoom integration

iii. Multiple microphones for several presenters
Standards
Jodon Bellofatto
Technology Enhanced Spaces, Technician
Standards – Easter Eggs
Standards – Easter Eggs

720p

1080p

4K

SPEED LIMIT 720p

SPEED LIMIT 4K

SPEED LIMIT 4K

SPEED LIMIT 1080p

SPEED LIMIT 1080p

SPEED LIMIT 720p

SPEED LIMIT 720p

SPEED LIMIT 4K

SPEED LIMIT 4K
Standards – Easter Eggs

HDMI:
- Version:
  - 1.6?
  - 2.0?
  - 2.0b?
  - 2.1?
- Resolution:
  - 720p
  - 1080p @ 30
  - 1080p @ 60
  - 4K @ 30
  - 4K @ 60
  - 4K @ 120
  - 8K @ 30
  - 8K @ 60

DisplayPort:
- Version:
  - 1.2a
  - 1.3
  - 1.4a
  - 2.0
- Resolution:
  - 720p
  - 1080p @ 30
  - 1080p @ 60
  - 4K @ 30
  - 4K @ 60
  - 4K @ 120
  - 8K @ 30
  - 8K @ 60

USB-C:
- Power?
- Data?
- Video?: Yes?
- Thunderbolt?
COMING SOON: MORE BEHIND THE SCENES!

Feb 15th - OIT: Cloudy with a Chance of Infrastructure

Mar 16th - OIT: Research IT at UC Merced

Apr 14th - OIT: Tech Procurement
That’s all, folks!