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Jason Mitchell

HyFlex Cybersecurity Teaching: Navigating Flexibility

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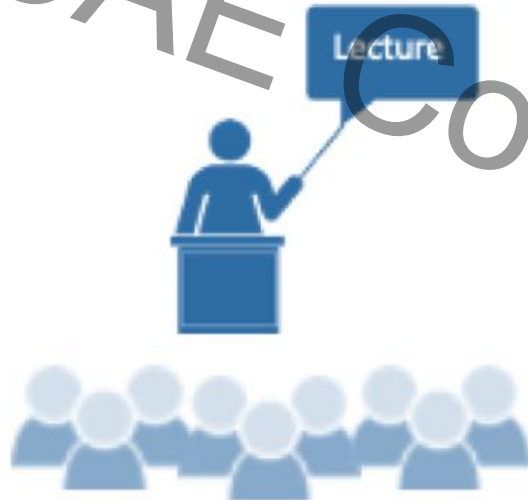
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2024
What?

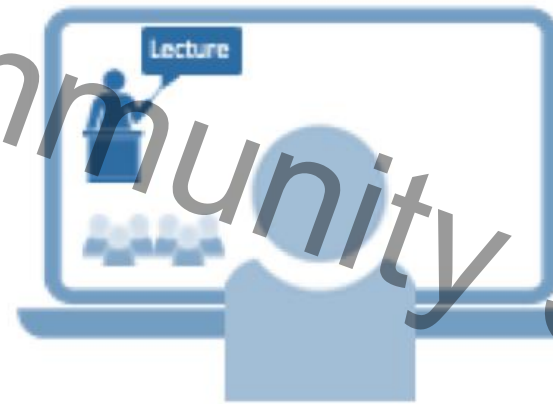
Students choose each week between:

Synchronous In-Person



Students attend in-person

Synchronous Online



Students join the live synchronous class online via their device

Asynchronous Online



Students watch pre-recorded lecture/discussion and participate asynchronously via the learning management system

01

02

03

04

05

06

07

08

09

10

The Bad
For
Students

Difficulty in Building
Community

Tech Troubles

Inequitable
Learning

Distractions in the
Online Environment

Lack of Social
Interaction



01

02

03

04

05

06

07

08

09

10

2024
The Bad
For
Instructors

Increase
Workload

Difficulty in
Engagement

Cohesive Learning
Experience



Balancing
Attention

Technical
Issues

01

02

03

04

05

06

07

08

09

10

2024

Solutions

CAE

Community



Community & Social Interaction

- Create a virtual community space (D2L Forum, Discord)
- Promote Collaboration and Peer Interaction (Kmaps, Projects)
- Host Virtual Office Hours and Q&A Sessions (Study Groups)
- Encourage peer support & mentoring (Team Up Students)

01

02

03

04

05

06

07

08

09

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2024
Solutions

Engagement with Technology

- Exciting Live Presentations (Use OBS, StreamLabs, Bandicam, Camtasia)
- Interactive Plugins for OBS (Move Transition, Audio Monitor, 3D Effects)
- Interactive Plugins for your LMS (Slido, Pollbot, Watercooler)
- Use peer collaboration on discussion boards



CAE Community Symposium

01

02

03

04

05

06

07

08

09

10

2024
Solutions

CAE

Community



Inequitable Learning & Instructor Overload

- Universal Design for Learning (Detail, Automation, Diverse)
- Accessible Course Materials (Remove Barriers)
- Equitable Assessment Practices (Rubrics, Embedded Quiz)
- Technology Accessibility (HTML5, VDI, MiFi)
- Regular feedback and support (Consistent, Timely, Open)

Symposium

2024

Solutions

CAE

Community

Technical Issues

- Keep it simple!
- Have helpdesk on speed dial
- Use internal resources to help with design
- Offer student support and/or peer support



- 1. UDL Principles** - Design for diverse learning needs.
- 2. Engaging Teaching** - Interactive, multimedia, hands-on approaches.
- 3. Build Community** - Foster connections, collaboration, and support among students.
- 4. Feedback and Support** - Provide regular assistance and mentorship.



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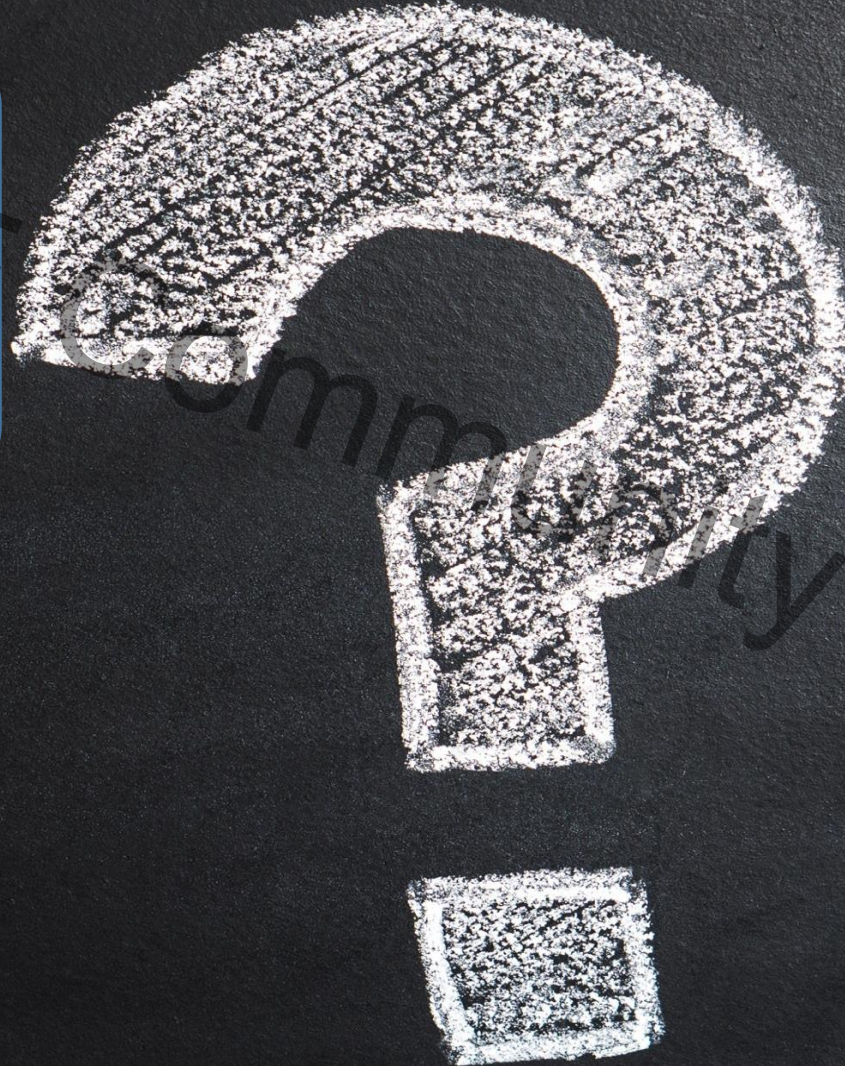
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2024 CAE Community Symposium

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Resources

- **OBS Training:**
<https://www.youtube.com/c/EposVox>
- **WebEx Plugins:**
<https://apphub.webex.com/category/education>
- **Zoom Plugins:**
<https://marketplace.zoom.us>
- **Universal Design for Learning – Hyflex**
<https://thinkudl.org/episodes/hyflex-course-design-model-with-brian-beatty>