2024 CAE Community Symposium

Jason Mitchell

HyFlex Cybersecurity Teaching: Navigating Flexibility

LANSING COMMUNITY COLLEGE | COMPUTER INFORMATION TECHNOLOGIES

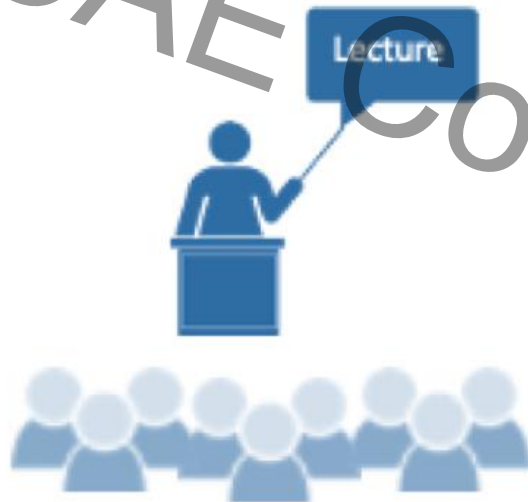CENTERS OF ACADEMIC EXCELLENCE IN CYBERSECURITY · CAE · COMMUNITY
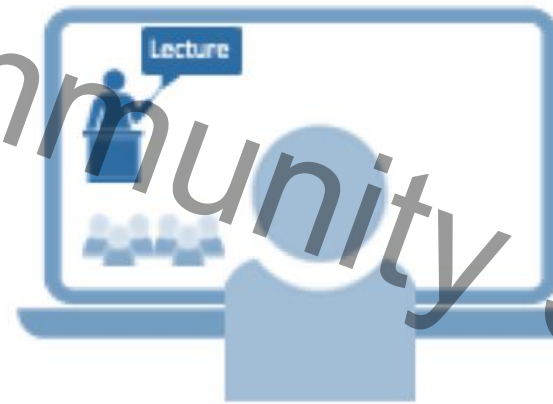
What?

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

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The Bad For Students

Difficulty in Building Community

Tech Troubles

Inequitable Learning

Distractions in the Online Environment

Lack of Social Interaction

The Bad For Instructors

Increase Workload

Difficulty in Engagement

Balancing Attention

Technical Issues

Cohesive Learning Experience

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Solutions

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)

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

Solutions

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)

Solutions

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.
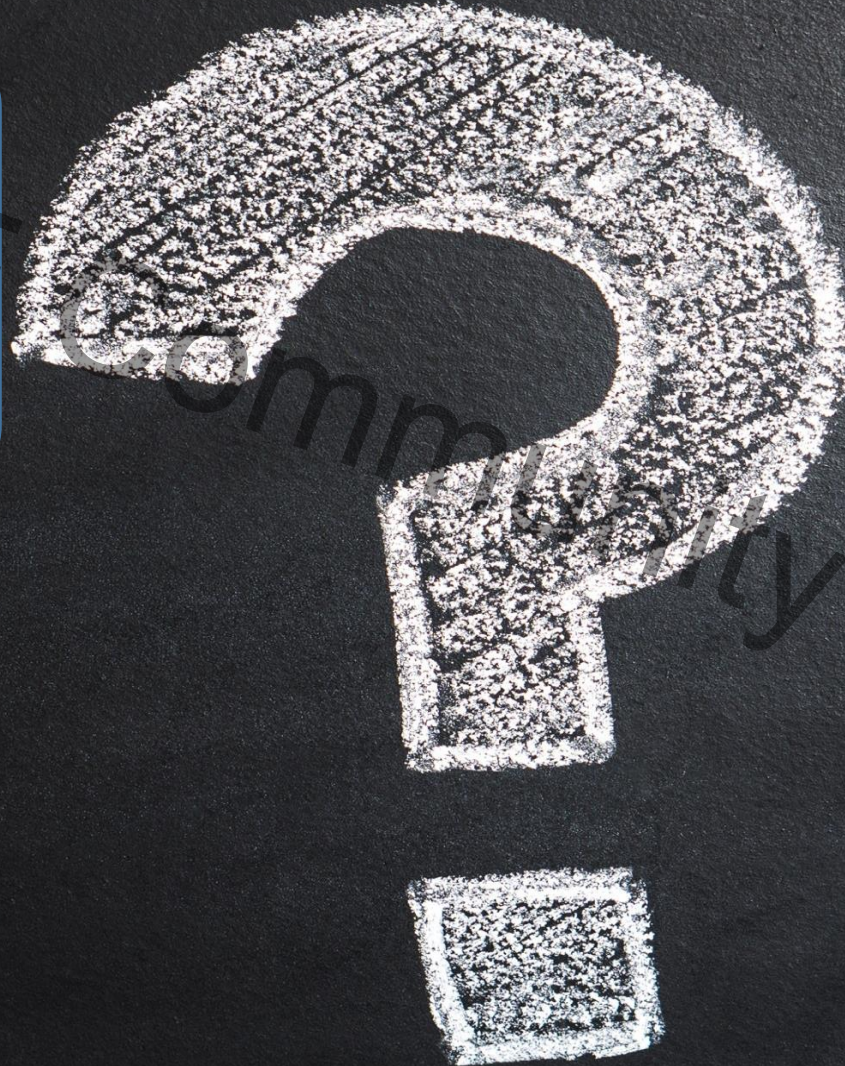4. **Feedback and Support** - Provide regular assistance and mentorship.

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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