



**DEARBORN  
CECS ONLINE**

# **A Framework for CECS Online Education**

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# CECS Online Education Framework

## Courses Developed Using Pedagogical Best Practices for Online Instruction

- Clear organization of course site and content
- Regular Communication with students
- Online assessments/exams
- Short 'topic' video recordings
- Prepared in advance

# CECS Online Education Framework

## Clear Organization Of Course Site and Content

*...“Strive for a course organization that is clear, methodical, and intuitive. Help students move through content and activities smoothly and seamlessly, so that their attention remains focused on learning the material.” (Chronicle)*

- Use Learning Management System (currently Canvas) tools to organize content
  - Place organizational information on the Home page
  - Avoid using “Files” for student navigation
  - Use Modules to organize content
  - Customize course tools menu

# CECS Online Education Framework

## Regular Communication with Students

- Offer office hours and/or study sessions
- Weekly communication from faculty
- Responses to email w/in stated time period
- Timely student feedback on course work
- Course/Teaching assistant help with communication
- Use of technological tools to encourage student communication (e.g. Slack, discussion boards)

# CECS Online Education Framework

## Online Assessments/Exams

- No proctoring or physical presence
- Take Home
- Projects
- Open ended labs (not done physically in person)

# CECS Online Education Framework

## Video Recordings

- Use short “topic” video recordings
- Limit long, lecture capture recordings
- Always include captions

# CECS Online Education Framework

## Prepared in Advance

- Fully developed course ready before semester begins
- Only small weekly adjustments as needed
- Not reliant on an in-person course
- Consult with Instructional Designers

# Other Considerations

## Hardware and Software Tools Needed

- Learning Management System - Canvas
- Communication Tools - Zoom, Google Meet, Slack
- Remote access to licensed software for students
- Recording Tools - CECS Video Production Studio, Lecture capture classrooms, Mediasite, Kaltura
- Use college / campus supported tools to ensure proper support and compliance with privacy regulations
- Utilize video production team for expertise and time saving

# Resources

Reich, Justin. Failure to Disrupt. Cambridge, MA, Harvard University Press, 2020.

[UMD Rubric for Online Instruction](#) - Dropbox

[How to be a better online teacher](#) - Chronicle of Higher Education

[Pedagogical Best Practice: Residential, Blended and Online](#) - Harvard University

[Best Practices for Teaching Online](#) - Arizona State University

[Rethinking Testing & Assessment](#) - Jose Bowen - Teaching Change

[No Return to Normal](#) - Inside Higher Ed

[Lecture Capture Reduces Attendance but Students Value It](#) - Inside Higher Ed

[Faculty Strategies Online Hybrid Teaching Spring 2020](#) - Brown University

# Resources

[Online Learning Best Practices](#) - Miami University of Ohio

[5 Research-Backed Tips to Improve Your Online Teaching Presence](#) - EDUTOPIA

[Ten Best Practices for Teaching Online](#) - Boettcher, Ph.D

[Back to Basics, Quality in Online Learning](#) - New America

[Lecture recordings to support learning: A contested space between students and teachers](#) - Morris, N. P., Swinnerton, B., & Coop, T.

[Online Assessment Strategies for STEM](#) - Andersen, Maria.

[OMSCS: The Revolution Will Be Digitized](#) - Communications of the ACM

[Can Online Delivery Increase Access to Education?](#) - Goodman, J., Melkers, J., & Pallais, A.

[Five Years of Graduate CS Education Online and at Scale](#) - Joyner, D. A., Isbell, C., Starner, T., & Goel, A.