LEARNING IS CONTAGIOUS

Lessons in Online Course Design

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RESEARCH

OBJECTIVES

OBJECTIVE 1
Develop an online, immersive introductory course in epidemiology.

OBJECTIVE 2
Provide interactive tools that utilize current university resources.

OBJECTIVE 3
Evaluate course satisfaction and other attributes.
Many online courses simply try to recreate the classical in-person classroom with little adjustment for the unique characteristics associated with a web-based learning environment.
Online learning environments are a key platform for teaching and learning in the 21st century.
Comparison of face-to-face and online learning environments

- LEARNER SATISFACTION (F2F)
- OVERALL COURSE QUALITY (F2F)
Factors shown to influence student satisfaction with web-based learning

- Course Design
- Instructor Facilitation
- Social Interaction
OUTBREAKS IN POPULAR CULTURE
TEAM
CODEBLUE

jessica SCHWIND

ashley CULLUM

jeff MASTROMONICO

aaron BURKHART

kathy DAVIES

#CODEBLUE
MEETING STANDARDS

- Public Health Competencies
- Students with Disabilities
- Copyright Issues
- On- and Off-Campus Resources
**Weekly Mission**

- A second wave has begun, and it’s unusual! Watch the video above for the latest mission updates.
- Complete reading assignments specified in the syllabus/coal: newspaper and check outbreak status through the interactive map.
- Read your Epi Guide and complete Nick’s Assessment.
- Complete your Staph Meeting assignment concerning measures of association in cohort studies alongside your outbreak readiness team.
- Critique a cohort study in this episode’s field journal.

**Course Tools**

- News
- Newspaper
- Epi Guide
- Field Journal
- Outbreaks
- Staph Meeting
- Readiness Group
OUTBREAK MAP

EPISODE 7

OUTBREAK MAP

QUICK FACTS

Episode 6: First confirmed cases are seen outside of North America and the affected population grows rapidly. Health authorities implement public health measures for all airport passengers. Basic epidemiologic studies are being conducted.

ANALYSIS

Episode 6: Under the International Health Regulations, the Emergency Committee considers declaring the World Health Organization declaring a novel public health emergency of international concern.
Mysterious Cluster of Cases Confound Experts at Georgia Regents Medical Center

Augusta, GA - Breaking news from Georgia Regents Medical Center, health officials continue to grapple with a mysterious cluster of cases of unknown origin.

According to the hospital spokesperson, at least 14 people from the CSRA have been admitted in the past two weeks with symptoms similar to the common flu virus. Patients are reporting high fever, muscle and joint pains, headache, and fatigue. However, standard viral screening tests have yet to make a positive confirmation for the influenza virus.

While the number of those reported cases is...
OUTCOME EVALUATION

COURSE SATISFACTION TOOL

PARTICIPANT CHARACTERISTICS

STUDENT ENGAGEMENT MEASURES
# Findings by the Numbers

<table>
<thead>
<tr>
<th>Measures</th>
<th>Average per Student</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td># of content visits</td>
<td>178</td>
<td>(74, 356)</td>
</tr>
<tr>
<td>Minutes spent in course</td>
<td>1650</td>
<td>(398, 5069)</td>
</tr>
<tr>
<td>Days accessed</td>
<td>81</td>
<td>(44, 113)</td>
</tr>
<tr>
<td>Posts read</td>
<td>88</td>
<td>(10, 567)</td>
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<tr>
<td>Post authored</td>
<td>57</td>
<td>(8, 207)</td>
</tr>
</tbody>
</table>

27 total students completed the course
SELECTED QUOTES

IN WHAT WAYS, IF AT ALL, HAS TAKING THIS COURSE ONLINE INFLUENCED YOUR APPROACH TO LEARNING?

“I enjoyed learning at my own pace and when I had time for it - made my learning time more effective.”
This was a challenging course. However, Dr. Schwind has crafted a very thorough curriculum that emphasizes problem solving and critical thinking, as opposed to memorization.
More
Research is needed

No Correlations Found

Final Grade vs.

# of Content Visits

# Posts Read

# Threads Created

# Replies Posted

# Total Posts Authored

Correlations Found

Final Grade vs.

# Minutes Spent in Course

Number of Obs = 27

Spearman’s $\rho = 0.5535$

Test of Ho: Final Grade and Total Minutes Are Independent

P-value = 0.0027
FINAL CONCLUSIONS

E
EXPONENTIAL INCREASE IN THE DEMAND FOR ONLINE LEARNING

P
PERCEPTIONS OF THE TRADITIONAL CLASSROOM MUST CHANGE

I
INCORPORATE EVIDENCE-BASED PRACTICES IN TEACHING AND LEARNING