

Research Report Summary



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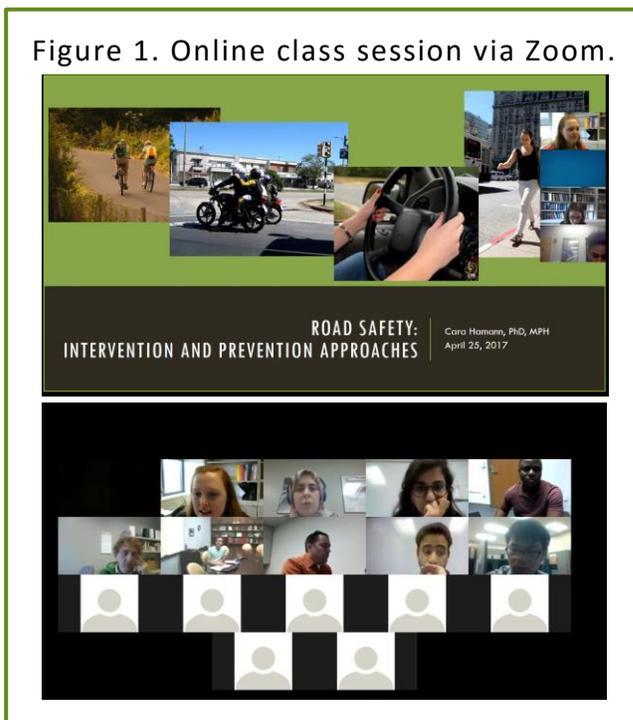
Global Road Safety Online Course Development

Education

This project involved online curriculum development for a synchronous online course on Global Road Safety, using Zoom as the virtual classroom platform (Figure 1) and Canvas learning management software for the

course website (Figure 3). A short-course format (four sessions) with a student-based active learning approach was used. The course was offered to both students and professionals. Sessions were

Figure 1. Online class session via Zoom.



Outcomes

Curriculum units developed

- Current state of global road safety: Distributions and trends
- Data sources and coding
- Traffic safety culture
- Policy
- Epidemiologic methods
- Naturalistic and simulation research methods
- Intervention and prevention approaches
- Automated vehicles

Interactive activities developed

- Conceptual model for road traffic safety risk factors
- Applying the social ecological model to traffic photos
- Policy-based interventions
- Rate exercise & symbolic \$100 budget
- QGIS mapping tutorial
- Development of a communication plan

Participants trained

- 16 students
- 6 professionals

Participant background areas

- Urban and regional planning
- Emergency medicine
- Engineering
- Human factors
- Law enforcement
- Public health (epidemiology)

designed to actively engage the learners through breakout group activities and mini-lectures.

The curriculum developed for this short course was developed into eight mini-lectures and six activities. Topics included

the current state of global road safety, data sources and coding, traffic safety culture, policy, epidemiologic methods, naturalistic and simulation research methods, intervention approaches, and automated vehicles.

Participants were recruited via word of mouth, flyers, and email lists (Figure 3). A total of 22 participants enrolled in the pilot short course, including 16 students and 6 professionals. Sixteen (68%) participated in all four sessions, earning a completion certificate.

Overall, the curriculum worked well in the online setting, and the breakout room feature of Zoom was especially useful for small group work. The course was well-received by students, according to their feedback. Future directions include continuation of this short-course, certificate-based format, as well as development and expansion of the course into a semester-long academic-credit-based course.

“The course was a great overview of some of the main issues and opportunities related to road safety. The small group exercises were a valuable part of the course.”

-Participant feedback

Figure 2. Course website home page

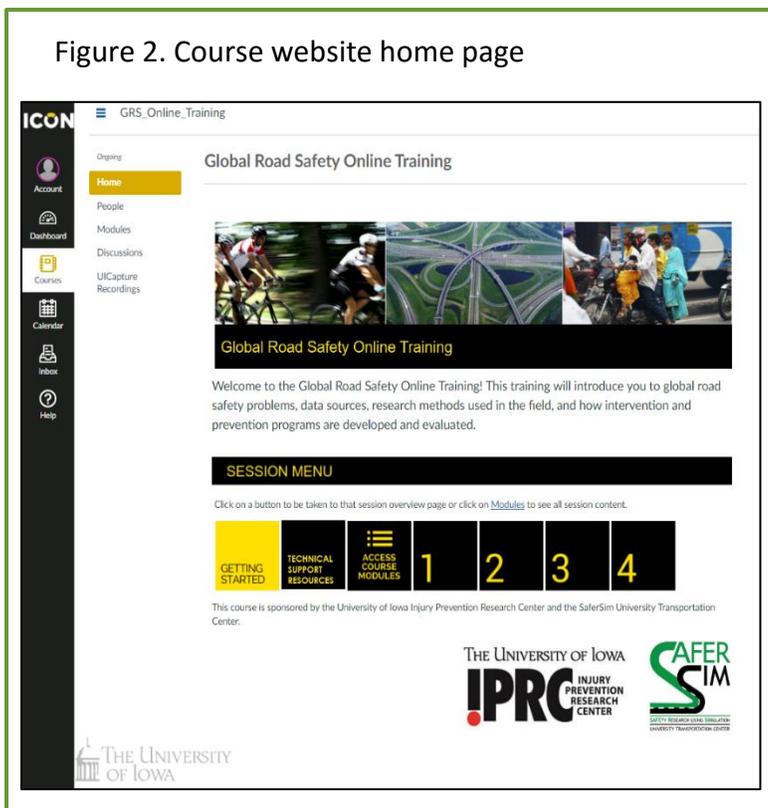


Figure 3. Course informational flyer

