

Research Project: Course Development (OU and OSU)

- ▶ Description: This research study includes the examination of current course development strategies used by the FAA and creation of a standardized course development structure for the FAA eLMS. Objectives include: 1) Examination of current course development protocols, 2) Examination of the current use of eLMS for course development, 3) Creation of a modified ISD protocol that uses Design Research features compatible with NextGen courses, 4) Development of a modified ISD protocol available for use in the eLMS, and 5) Creation of a process available for use by future developers.
 - ▶ Lead Principal Investigator: Dr. Todd Hubbard, Page Professor in the Department of Aviation (OU)
 - ▶ Co-Principal Investigators: Dr. Matt Vance, Professor in Aviation and Space Program (OSU) and Dr. Terry Salmon (President, Computer System Designers)
 - ▶ Industry Partner: Computer System Designers
- ▶ Deliverables: 1) Report of existing course standards and best practices, 2) Revised sample course with proposed Design Research and ISD methods, and 3) Final recommendations report.
- ▶ Timeline: 17 months
- ▶ FAA Customer: AJI-212, Greg Sanders

Course Development: Design Research Techniques

- Discover
- Define
- Conceptualize
- Design
- Implement
- Evaluate

Design researchers can explore new materials and actively participate in intentionally constructing the future, in the form of disciplined imagination, instead of limiting their research to an analysis of the present and the past

Design Research Through Practice
Koskinen, Zimmerman, Binder, Redström, & Wensveen

<http://designresearchtechniques.com/#/>