Making learning something you can observe
Learning Design as Hypothesis
The Simon Approach: Learning Engineering
Better Faster Learning

Learning engineers embrace evidence-based teaching and learning as a route to a smarter and more expert-rife citizenry.

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"In the ed-tech space, Carnegie Mellon University is the intellectual heart of the tinkerer movement. Programs like the Open Learning Initiative are research based, devoted to continuous improvement, motivated by bold dreams, and grounded in the reality that change is hard."
Open Learning Initiative
Transforming higher education through the science of learning.
What is the Open Learning Initiative?

Scientifically-based online learning environments based on the integration of technology and the science of learning with teaching. OLI is designed to simultaneously improve learning and facilitate learning research.
The Open Learning Initiative

Established in 2002 to produce and improve exemplars of scientifically-based online courses that enact instruction and support instructors. Current goals:

• Support better learning and instruction with high-quality, scientifically-based, classroom-tested online courses and materials.
• Share our courses and materials openly and freely so that anyone can learn.
• Develop a community of use, research, and development.
An approach to designing, developing, delivering and improving learning experiences

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Science
- Science of Learning
- Evaluation
- Improvement

Technology
- Platform
- In-course Affordances

Teams
- Team-based Development
- Communities of Research and Use

Data
- Capture
- In-course Use
- Iterative Improvement
- Research