



Open Learning Initiative (OLI)

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**Open Learning
Initiative**

Carnegie Mellon University



What is OLI?

- Complete courses (textbook replacement) and supplemental materials

Arts & Humanities
Business
Computer Science
Data Science
Modern Languages

Life Science
Math and Logic
Physical Science
Social Science
Technology & Design



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- Content authoring or customization (Echo)





Results:

Two decades of diverse studies show the effectiveness of the OLI approach:

- up to 6x the learning, in $\frac{1}{2}$ the time, with improved knowledge retention and transfer
- Closing traditional gaps, particularly in underrepresented populations
- Iterative improvement shows better outcomes over time





Extensive Partnership w/ MD Institutions

Co-Development

- Statistical Reasoning
- Probability & Stats
- Intro Biology
- Biology for Majors
- Anatomy & Physiology
- Psychology

Extensive Use

- French
- Spanish
- Chemistry I and II
- Chemistry Labs
- Principles of Computation
- Cloud Computing
- Collaboration, Conflict Management
- Healthcare IT
- Logic & Proofs

TAACCCT Development

- STEM Readiness
- STEM Foundations
- PC Hardware (A++/CompTIA)
- PC Software (A++/CompTIA)
- Mechatronics Pathway
- Environmental Pathway
- Cyber Pathway
- Composites Technology
- Electric Vehicle Technology

Cooperative Research

- Ithaca S+R Statistics Trials
- Doer Effect Research
- Internal Research
- Current MOST



For USMD instructors and students

- Get started quickly
- Single sign-on in your LMS
- Support directly from OLI Support
- Weekly workshops: oli.cmu.edu/events

GET STARTED
oli.cmu.edu/courses





A little context...





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- Conceived in 2001
- Research-and-production project answering the question:





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OLI course design

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This is what works in online instruction:

- Student-centered learning objectives
- Learning by Doing: embed practice early and often
- Immediate, targeted feedback addresses misconceptions
- Collect data to enable instructors to help students, and for iterative improvement of content



Get started or get in touch

Course catalog: <https://oli.cmu.edu/courses>

Get started:

https://oli.cmu.edu/educators/#get_started

Get in touch:

oli-help@cmu.edu

hturner@cmu.edu

