

# LINKING OPENCOURSEWARE REPOSITORIES AND THE NSDL

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## WHY?

Opencourseware repositories represent a large, untapped source of high-quality digital learning resources for the NSDL. Repositories such as MIT OpenCourseWare or Utah State University OpenCourseWare contain a number of STEM courses that could provide context for NSDL repositories of learning materials and vice versa.

## GOALS

Because a course provides **CONTEXT** for teaching and learning STEM in higher education, this project **PROVIDES ACCESS TO COURSE MATERIALS** from opencourseware repositories and **ASSOCIATES DIGITAL LEARNING RESOURCES TOGETHER WITH COURSES**.

## OPENCOURSEWARE PORTAL

Search and browse for courses from multiple opencourseware repositories.

The screenshot shows the 'opencourseware portal' with a search bar and a list of OCW Collections. The search bar has a 'GO' button. The list of collections includes MIT OpenCourseWare, Utah State University OpenCourseWare, Johns Hopkins School of Public Health OpenCourseWare, Rice Connexions, Foothill De-Anza SOFIA, Carnegie Mellon Open Learning initiative, MIT OpenCourseWare Español, MIT OpenCourseWare Chinese (Taiwan), and Kyoto University (Japan). There are also sections for Supporting Discussion Forums and Meta-collections.

## opencourseware

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### Related Courses:

Waste Containment and Remediation Technology (MIT)  
Environmental Struggles (MIT)  
Environmental Politics and Policy (MIT)  
Systems Analysis of the Nuclear Fuel Cycle (MIT)  
Refugee Health Care (JHSPH)  
More...

### Supplementary Learning Resources:

Related Learning Resources  
Virtual Chemistry Lab (MERLOT)  
Interactive Groundwater (NEEDS)  
BEST SiteSim (NEEDS)  
Particle Diffusion (MERLOT)  
Construction of Cell Membrane (MERLOT)  
More...

### Related Learning Resources:

Search NSDL -->  
Search MERLOT -->

### RELATED COURSES

via federated search across eduCommons repositories

### RECOMMENDED LEARNING RESOURCES

from NSDL Collections, especially peer-reviewed resources from MERLOT

### OTHER RELATED RESOURCES

via collaboration with NSDL CI Team and MERLOT

## OPENCOURSEWARE LINKING SERVICES

Linking courses and digital learning resources provides context for faculty and students.

The screenshot shows the MERLOT 'Virtual Chemistry Laboratory' page. It includes a search bar, navigation tabs (Home, Communities, Browse Materials, Content), and a detailed view of a resource. The resource is a simulation titled 'Virtual Chemistry Laboratory' by The Iridium Project, David Yaron from Carnegie Mellon University. It has an average rating of 4.5 stars and is found in 31 personal collections. There are links for 'Add to a Personal Collection' and 'See Related Courses'.

RELATED COURSES from eduCommons and other opencourseware repositories via federated search

The screenshot shows the 'OPENCOURSEWARE FINDER' interface. It has a search bar with 'chemistry t.mit' entered. Below the search bar is a 'Tag Browser' with a list of tags and their counts: biology (24), brain (66), chemical (18), chemistry (17), civil (61), cmu (7), cognitive (66), comparative (11), computer (128), computers (2), design (1), distance (1). The 'chemistry' tag is selected. Below the tag browser is a table of 'OpenCourseWare Courses' with columns for Description, Tags, and Time. The table lists several chemistry courses from MIT.

Prototypes available at [www.opencontent.org](http://www.opencontent.org)

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