



# Labster

## Add Labster simulations to your Canvas course

Guide for all instructors of the California Community College System

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# SECTION 1 - Adding Simulations as Assignments

## 1. Choose your simulations

1. Navigate to this page <https://www.labster.com/faculty-resources/?k=Kxr5RsZrs7j6BjYx> and browse through our catalog.
2. Once you have decided which course packages are the most suitable for your course, simply download the packages of your choice. You can import more than one package to your course.

### Import All Simulations in Package

▼ General Biology I & II

**Resources**

Download PDF Summary

**Add Simulations To Your Course**

Core Simulations

All Simulations

Download Canvas Guide

▶ Watch The Guide In Video

**Core Simulations**

- Acids and Bases
- Action Potential Lab: Experiment wi...
- Animal Genetics
- Atomic Structure: Assess the possib...
- Basic Chemistry Thermodynamics: S...
- Carbohydrates: The sugars that feed...
- Cellular Respiration: Measuring ener...
- Electron Transport Chain: A rollerco...
- Enzyme Kinetics
- Evolution: Are you related to a sea ...
- Experimental Design
- Gene Expression Unit
- Introduction to Food Macromolecules
- Ionic and Covalent Bonds
- Lab Safety
- Matter and Phase Changes: Distil et...
- Melosis
- Mendelian Inheritance: From genes ...
- Microscopy
- Mitosis
- Organic Chemistry Introduction: Lea...
- Pigment Extraction: Use photosynth...
- Pipetting: Master the technique
- Protein Synthesis
- Signal Transduction: How Cells Com...

**Related Simulations**

- Antibodies: Why are some blood typ...
- Bacterial Cell Structures: An introdu...
- Bacterial Isolation
- Confocal Microscopy
- Cytogenetics
- Diabetes
- ELISA
- Embryology: Discover the genetics o...
- Fermentation
- Gene Regulation
- Hematology: Introduction to blood
- Medical Genetics
- Molecular Cloning
- Monogenic Disorders
- Next Generation Sequencing
- Parkinson's Disease
- Polymerase Chain Reaction
- The Gram Stain: Identify and differ...
- Viral Gene Therapy
- Your Diet and Your DNA

### Import Core Simulations Only

▼ General Biology I & II

**Resources**

Download PDF Summary

**Add Simulations To Your Course**

Core Simulations

All Simulations

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**Core Simulations**

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- Viral Gene Therapy
- Your Diet and Your DNA

Note: Our simulations are bundled in course packages. For each course package, you will find two types of simulations: core and related simulations, based on their relevance to the subject.

## 2. Import the Common Cartridge file to your course

1. Log in to Canvas
2. Go to your course and press *Settings* on the left-hand side panel
3. Select *Import Course Content* on the right-hand side panel

The screenshot shows the Canvas Settings page for a course titled "all-course". The left sidebar is dark blue with various navigation items. The main content area has a light gray background. At the top, there are tabs: Home, Course Details, Sections, Navigation, Apps (which is selected), and Feature Options. Below these tabs is a section titled "External Apps" with a sub-section "Name" containing "Labster Dashboard". To the right of the dashboard entry is a small info icon (circled with a red number 1). On the far right, there is a vertical list of course management options, each preceded by a small icon. The "Import Course Content" option is highlighted with a red box and circled with a red number 2. Other options listed include Student View, Course Statistics, Course Calendar, Conclude this Course, Delete this Course, Copy this Course, Export Course Content, Reset Course Content, Validate Links in Content, and Current Users.

all-course > Settings

Account Admin Dashboard Courses Calendar Inbox

Home Announcements Assignments Discussions Grades People Pages Files Syllabus Outcomes Quizzes Modules Labster Dashboard Settings

Course Details Sections Navigation Apps Feature Options

External Apps

Name

Labster Dashboard

2

Student View

Course Statistics

Course Calendar

Conclude this Course

Delete this Course

Copy this Course

Import Course Content

Export Course Content

Reset Course Content

Validate Links in Content

Current Users

4. In the *Import Content* page, select *Content Type* = Common Cartridge 1.x Package
5. Select *Browse* button in the *Source* field and select the previously downloaded Common cartridge file

### 3. Select Simulation Assignments

#### Option A - Import All Simulations

If you are interested in most of the simulations from the course package:

1. Select *All content*
2. Click the *Import* button.

The screenshot shows the 'Import Content' dialog box. On the left is a sidebar with links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Quizzes, Modules, Labster Dashboard, and Settings. The 'Pages' link is highlighted. The main area has a title 'Import Content'. It includes fields for 'Content Type' (set to 'Common Cartridge 1.x Package'), 'Source' (with a 'Choose file' button), 'Default Question bank' (with a 'Select question bank' button), and 'Content' (radio buttons for 'All content' (selected) and 'Select specific content'). Below these are 'Options' checkboxes for 'Overwrite assessment content with matching IDs' and 'Adjust events and due dates'. At the bottom are 'Cancel' and 'Import' buttons, with 'Import' highlighted by a red box.

*Note: You can delete the simulations after adding them*

#### Option B - Select Specific Simulations Only

If you are only interested in some simulations from the package:

1. Choose *Select specific content*
2. Click the *Import* button
3. Click the *Select Content* button

The screenshot shows the 'Current Jobs' page and the 'Select Content' dialog box. On the left is a sidebar with links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Quizzes, Modules, Labster Dashboard, and Settings. The 'Pages' link is highlighted. The 'Current Jobs' section shows a job for 'Common Cartridge' with file 'user\_generalbio\_core.zip' imported on 'Mar 24 at 9:54am' and status 'Waiting for Selection'. A 'Select Content' button is highlighted by a red box. The 'Select Content' dialog box is open, showing a tree view of content. The 'Assignments' node is expanded, showing the 'Simulations' node. Under 'Simulations', several simulations are listed with checkboxes: 'Acids and Bases: Acidity and alkalinity in everyday substances' (checked), 'Carbohydrates: The sugars that feed us' (unchecked), 'Basic Chemistry Thermodynamics: Solve the challenge of storing renewable energy' (unchecked), 'Animal Genetics' (unchecked), 'Microscopy' (unchecked), 'Ionic and Covalent Bonds' (checked), 'Meiosis: Understand how traits are inherited' (unchecked), 'Pipetting' (unchecked), and 'Cellular Respiration: Measuring energy consumption during exercise' (unchecked). At the bottom of the dialog is a 'Select Content' button, which is also highlighted by a red box.

*Note: You can delete the simulations after adding them*

6. The import is now completed and you will find your simulations under the *Assignments* section.

The screenshot shows the 'Import Content' page in Canvas. At the top, there's a navigation bar with 'all-course' selected. Below it, a sidebar lists 'Home', 'Announcements' (highlighted in grey), 'Assignments' (highlighted with a red box), 'Discussions', 'Grades', 'People', 'Pages', 'Files', and 'Syllabus'. To the right, there's a 'Content Type' dropdown set to 'Select One'. A 'Current Jobs' section displays a single item: 'Common Cartridge ...er\_generalbio\_core.zip' imported on 'Mar 24 at 9:54am'. A green button labeled 'Completed' is visible next to the file name. Two red arrows point from numbered labels to specific elements: arrow 1 points from '1. When you see this' to the 'Completed' button, and arrow 2 points from '2. Your simulations are here' to the 'Assignments' link in the sidebar.

Important notes:

1. Please note that **you must not alter existing activities/assignments by modifying the simulation URLs**. Doing so would affect the grading.
2. You can import as many course packages as you wish. A simulation can be found under more than one course package. As a consequence, please **ensure that you remove simulation duplicates from your course before you publish the assignments**. In case a simulation appears twice under the Assignments section, it will also appear twice in your Canvas gradebook.

### 3. Publish the Assignments

1. Select *Courses > Assignments*
2. Select *Publish* icon on each simulation

The screenshot shows a course management interface with a sidebar on the left and a main content area on the right.

**Left Sidebar:**

- Assignments** (selected)
- Discussions
- Grades
- People
- Pages
- Files
- Syllabus
- Outcomes

**Main Content Area:**

- Assignments:** A section titled "Assignments" with a dropdown arrow. It displays the message "No assignments in this group".
- Simulations:** A section titled "Simulations" with a dropdown arrow. It lists two items:
  - Acids and Bases: Acidity and alkalinity in everyday substances**: 100 pts. To the right is a "Published" button with a checked checkbox and a "Publish" button with an unchecked checkbox.
  - Enzyme Kinetics**: 100 pts. To the right is a "Published" button with an unchecked checkbox and a "Publish" button with a checked checkbox.

## SECTION 2 - Gradebook

### 1. Adding Labster Dashboard to Course Navigation

To see detailed simulation progress for you and your students, you can add the Labster Dashboard to your course navigation.

1. Go to Settings for your course
2. Select Navigation
3. Drag the “Labster Dashboard” menu item up to unhide it  
*If you do not see “Labster Dashboard”, please ask your Canvas Admin to activate Labster in your Canvas instance.*
4. Press Save. You and your students will now see the “Labster Dashboard” option in the left menu.

The screenshot shows the 'Navigation' tab selected in the top menu bar. On the left, a sidebar lists various course sections: Home, Announcements, Assignments, Discussions, Grades, Pages, Quizzes, Modules, Syllabus, Files, Outcomes, People, and Settings. The 'Settings' section is highlighted with a blue background. In the main content area, there are two sections: 'Drag and drop items to reorder them in the course navigation.' and 'Drag items here to hide them from students.' Under the first section, items like Home, Announcements, Assignments, Discussions, and Grades are listed. Under the second section, items like Labster Dashboard, Pages, and Quizzes are listed, each preceded by a note: 'Page disabled, won't appear in navigation' or 'Page disabled, will redirect to course home page'. A red arrow points from the 'Labster Dashboard' item in the hidden section up towards the visible navigation list.

Visible in Navigation	Hidden
Home	Labster Dashboard
Announcements	Pages
Assignments	Quizzes
Discussions	
Grades	
Pages	
Quizzes	
Modules	
Syllabus	
Files	
Outcomes	
People	
<b>Settings</b>	

## 2. Automated Grading

The grades are being sent to the LMS gradebook automatically once a student has 100% completed the simulation. If a student has not completed the simulation or restarted the simulation before reaching 100%, no grade is being sent back to the LMS gradebook. Your admin has set up Labster so that the highest score is sent to the LMS gradebook.

*Real-life example:* A student plays the same simulation twice. They complete the simulation for the first time and get a score of 60 out of 100. The same student completes the simulation for the second time and gets a score of 70 out of 100. Only the best completed attempt will be visible on Canvas gradebook which in this case is 70.

**Labster Dashboard:** The Labster dashboard can be added to your course (see previous step) and can be found in the left panel of your course. It provides further details on student results from all attempts including those which are not completed to 100%.

The screenshot shows the left sidebar of a Canvas LMS course page. The sidebar includes links for Dashboard, Courses, Calendar, Inbox, and several administrative sections like Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Quizzes, and Modules. The 'Labster Dashboard' link is highlighted with a red box. The main content area displays the Labster dashboard, which lists assignments and simulations. Under 'Assignments', it says 'No assignments'. Under 'Simulations', there are four entries: 'Acids and Bases: Acidity and alkalinity in everyday substances' (100 pts), 'Enzyme Kinetics' (100 pts), 'Matter and Phase Changes: Distil ethanol' (100 pts), and 'Microscopy' (100 pts). Each entry has a small icon and a three-dot menu.