

# Lesson Manual

Site: [HSU Moodle](#)  
Course: The HSU Faculty Guide to Moodle-Spring 2006  
Book: Lesson Manual  
Printed by: Guest User  
Date: Monday, May 29 2006, 12:38 PM

# Table of Contents

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[1 Introduction](#)

[2 Lesson Modes](#)

[3 Lesson Features](#)

[4 Practice Lessons](#)

[5 Password protection](#)

[6 Custom Scoring](#)

[7 Display Ongoing Score](#)

[8 Display Review Button:](#)

[9 Timed lessons](#)

[10 Tree View](#)

[11 Slide Show](#)

[12 High Scores](#)

[13 Save defaults](#)

[14 New Jump Types](#)

[14.1 Random Questions](#)

[14.2 Random Branch page](#)

[15 Essay Questions](#)

[15.1 Grading Essays, Part 1](#)

[15.2 Grading Essay Questions, Part 2](#)

# 1 Introduction

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This module allows a series of pages to be entered. Each page can have a question at the end, and can lead to any other page. This module can create a series of pages which can be presented in a linear fashion, like a slide show, or in a non-linear, branching manner, or a combination of the two. It can be graded, with questions, or ungraded and used simply as a resource.

A PowerPoint presentation can also be turned into Lesson format.

There are two modes: a flash card mode and a presentation mode. These will be covered in the next page.

The new lesson format includes many features to make cheating more difficult through question clustering, password protection, and time limits.

The Practice Principle of eLearning (see [Clark and Mayer, 2004](#)), has also been implemented, where practice is integrated with instructional material.

## 2 Lesson Modes

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There are two basic modes for presenting a lesson, Flashcard mode and Presentation mode.

### Flashcard Mode

In Flashcard mode, lesson pages are shown in random order, like shuffled flashcards. This mode can be used in two ways: totally random presentation and random unseen. Random presentation simply presents the pages in the lesson to the students randomly, like a continually shuffled pack of flash cards.

Random unseen discards pages the student has already seen, and chooses randomly from the list of pages the student has not seen, as if the student was using flashcards and discarding the ones she has seen already.

### Presentation Mode

The simplest form of this mode is a linear series of pages and/or questions that the student simply clicks through one after the other, like a slideshow. However, links can be made between any page and any other through a drop down menu, so non-linear presentations can be created also.

Further, sections of the presentation can be treated randomly, by creating a branch with and end of branch, between the branch and the end of branch questions can be set to be shown randomly. This can be refined by creating a cluster, where a series of similar questions can be located and one of them will be randomly selected for each cluster.

### Question types:

Standard multiple choice, true false, and fill in the blank, and short essay questions can be created anywhere in the presentation. Pages and questions can be moved around easily as well. In addition, short answer essay questions can be used.

While the multiple choice, true false, and fill in the blank questions are automatically graded, short answer essay questions are graded by the instructor manually. Questions can have a different point value for each answer, and negative points values may be assigned. Each answer can link to any other page in the lesson, enabling summative learning lessons to be created.

*Extra features (these features can be enabled or disabled in each lesson)*

**Password protection**, lessons can be assigned a password students must enter before they are allowed access into the lesson.

**Display Ongoing Score** this shows a running total of the student's points as they take the lesson.

**Timed lessons:** the lesson creator can set a time limit on a lesson. Students are presented with a time clock, and evicted from the lesson when the time runs out.

**Slide Show mode:** this makes all pages the same size and pages can have a custom background color.

**Display Left Menu:** a menu of the pages of the lesson can be automatically generated and displayed to the left of the lesson pages. Questions do not show up in the left menu, and non-question pages can be hidden from the left menu.

**Display High Scores:** the lesson creator can choose a number of the highest scores to display. If the student gets a score that is one of the top scores, the student is presented with a screen asking if they want to have their score publicly displayed.

## 3 Lesson Features

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See the chapters below for [more information](#). All of the below may be disabled or enabled.

- Practice lessons: non graded lessons that don't show up in the gradebook
- Password protected lessons
- Custom scoring: answers can have a range of positive and negative values
- Ongoing score display: shows students a running total of their score
- Timed lessons. Lesson timer shows the time a student has left.
- Tree view: shows entire lesson as a list of links
- Slide show, allows you to set a custom page size and background color for a lesson
- Display left menu: shows a lesson menu on the left side of the screen
- Display high scores: allows students to enter their name and high score if their score is one of the top number the lesson author has set.
- Set defaults: lesson settings can be saved as defaults for a course
- Upload media file: an [audio](#) file can be uploaded to play as the lesson progresses.
- Import Powerpoint: Powerpoint presentations exported as html can be imported into the lesson, with slides from the powerpoint becoming branch tables in the lesson

## 4 Practice Lessons

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You can turn this on in the lesson's settings.


Practice lessons act as standard lessons, but will not show up in the gradebook.

Note that the 'high scores' feature does not currently work with practice lessons.

### Adding a new Lesson to topic 1

Name:

Practice Lesson:

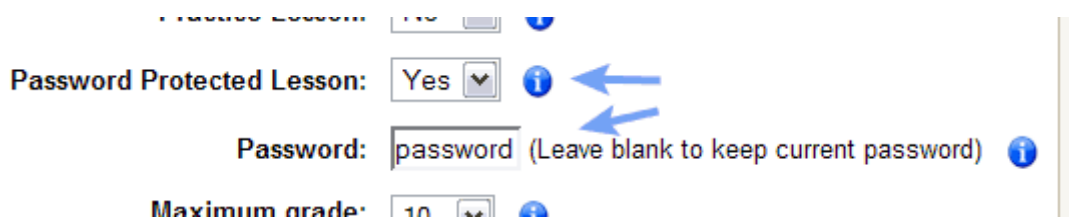




## 5 Password protection

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Activate this in the lesson's settings:



The image shows a portion of a lesson settings interface. It includes the following elements:

- Activate Lesson:** A dropdown menu with 'Yes' selected and a blue information icon to its right.
- Password Protected Lesson:** A dropdown menu with 'Yes' selected and a blue information icon to its right. Two blue arrows point from this information icon to the 'Password' field below.
- Password:** A text input field containing the word 'password'. To its right is a blue information icon and the text '(Leave blank to keep current password)'. A blue arrow points from this information icon to the 'Password Protected Lesson' dropdown.
- Maximum grade:** A dropdown menu with '10' selected and a blue information icon to its right.

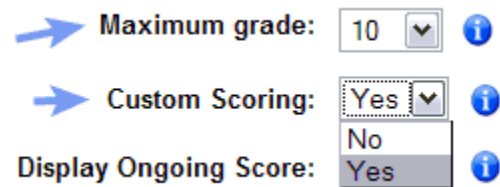
Students will be required to enter the password you set here before attempting the lesson. You can change the password at any time for students who miss a test or had other problems on the test.

## 6 Custom Scoring

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This can be enabled in the lesson settings.

Note that Maximum grade does not currently calculate the total points with custom scoring on (this is due to the clustering code, see that section for [more information](#)).



The image shows three settings in a lesson configuration interface, each with a blue arrow pointing to it from the left. The first setting is 'Maximum grade:' with a dropdown menu showing '10' and an information icon. The second setting is 'Custom Scoring:' with a dropdown menu showing 'Yes' and an information icon. The third setting is 'Display Ongoing Score:' with a dropdown menu showing 'No' and an information icon.

To turn custom scoring on, click yes. This will enable you to set a custom point value for each answer. Negative values are allowed. The maximum grade will be the maximum points students may receive for the lesson.

This allows you to send wrong or right answers anywhere you like.



If custom scoring is not enabled, correct answers must go to a subsequent page (Next page or later page) in the lesson to get a positive score.

## 7 Display Ongoing Score

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### Display Ongoing Score:

This shows students a running tally of the total points in the lesson, the number they have attempted, and their current score.

Display Ongoing Score:	<input type="button" value="Yes"/>	
Number of answers/branches:	<input type="button" value="No"/>	
	<input type="button" value="Yes"/>	

Below is an example of what a student will see when ongoing score is turned on:

<p>This is a 10 point lesson. You have earned 3 point(s) out of 3 point(s) thus far.</p>
<p>That's the Correct Answer</p>


Note that when the instructor checks the navigation of a lesson, ongoing score won't be displayed.

## 8 Display Review Button:

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### Display Review Button:

This feature was requested by a member of the HSU faculty, Dr. Stone Brusca. If activated it will display a set of buttons which students may use to review their answers if they answer incorrectly:

Maximum number of Attempts:  

Display Review Button:  

Unfortunately you cannot earn this one point, because your response was not correct. Would you like to keep guessing, just for the sheer joy of learning (but for no point credit)?

This message makes sense if students are allowed only one attempt in the first place. If multiple attempts are enabled, students **will be** able to earn points using the review button.

## 9 Timed lessons

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Timed lessons let you set a time limit in minutes for a lesson. Students only earn points during the time allowed. They cannot earn any points after the limit.

Timed:  ⓘ

Time Limit (minutes):  ⓘ

If students leave a timed lesson before it is complete, that score will be recorded. If retakes are allowed, they will re-start the lesson timer when they re-enter the lesson. The student's current time will be displayed in minutes and seconds and they will get a one minute warning.

1 minute warning → timer display → Time remaining: 0:51

Warning: You have 1 minute or less to finish the lesson.

This is a 10 point lesson. You have earned 1 point(s) out of 1 point(s) thus far.

*Practice Lesson*



This bird is a...




## 10 Tree View

This option is of most benefit when editing a large lesson. If enabled it displays the lesson structure as a list of clickable links, with edit buttons.



Branch tables will show up as blue links, and questions will show up in red as shown below.



Tree View:	No	
Slide Show:	Yes	



**Practice Lesson** 



Tree View



[back to standard view](#) → [View All Pages](#)



Introduction [Jumps to: Next page](#)   ← **branch table**



Humboldt State University [Jumps to: Next page, Previous Page](#)  



**Humboldt State University**   ← **question**



Bald Eagle [Jumps to: Next page, Previous Page](#)  

Magpie [Jumps to: Next page, Bald Eagle](#)  

**This bird is**  

**This bird is**  

**Fish**  

End of Branch [Jumps to: End of lesson](#)  

[View All Pages](#)

**Check navigation** ← **navigation check**

# 11 Slide Show

Turning on slide show mode will allow you to present your content in a slide show format, with a fixed slide size, next and back buttons, custom background color, etc.

See the size in pixels and the background color in hex code as

shown. If the content size exceeds the pixel settings, lesson will put in a css based scrollbar.

Slide Show:  ⓘ

Slide Show Width:  px ⓘ


Slide Show Height:  px ⓘ


Slide Show Background Color:  ⓘ



# 12 High Scores

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Display High Scores:  

Number of High Scores Displayed:  

If high scores are enabled, the lesson will display the highest scores before a student takes it.

If a student makes it into the top ten (or whatever number the instructor set), they are asked if they would like to post their score as one of the high scores.

They may enter any name they like so they can remain anonymous (the names are checked against a censored list to prevent abuse).

**Practice Lesson** 

Top 10 scores for Practice Lesson lesson.

Rank	Students	Scores
1	fred!	60


[Cancel](#) | [Start Lesson](#)

## 13 Save defaults

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There are many new settings in lesson, and this setting lets an instructor save a set of default settings for each course.

Use this lesson's settings as defaults:

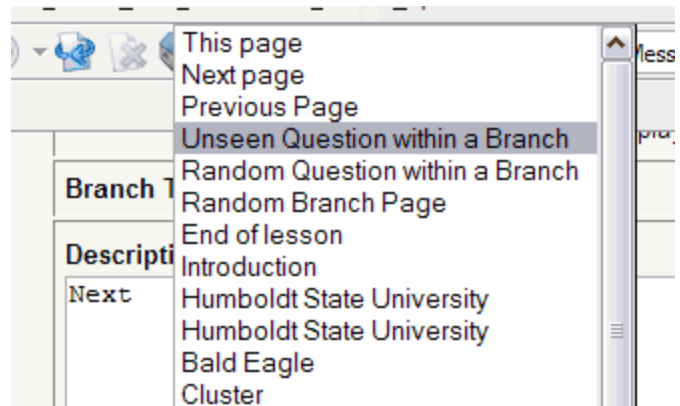
No 

## 14 New Jump Types

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There are several new jump types which enable random path-taking (useful for making simulations), and a cluster function for building question clusters (a group of similar questions from which one will be randomly selected for each person taking the quiz).

In addition to enabling creation of simulation-like learning objects, these functions also make it more difficult for students to cheat or game assessments.



## 14.1 Random Questions

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Random Unseen Question within a Branch: This jump function shows questions that have not yet been viewed in a random order. It is used for questions that are within a Branch.

Random Question within a Branch: This jump function will randomly show questions. It is used for questions that are within a Branch.

## 14.2 Random Branch page

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This is a jump to view a random branch that has not already been viewed. To use this, set up the lesson like this:

- Question Pages (Optional)
- Branch Table1: Jumps to Random Branch Page
- Branch Table2
- Question pages.....
- End of Branch: Jumps to Random Branch Page
- Branch Table3
- Question pages.....
- End of Branch: Jumps to Random Branch Page
- Branch Table4
- Question pages.....
- End of Branch: Jumps to Random Branch Page
- End of Lesson

So, when a student takes this lesson he/she will see Branch Table 1 and from it jump to Branch Tables 2-4 in a random order.

# 15 Essay Questions

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Short essay questions are a new feature in Lesson. These are meant for short, paragraph or two type of essays one often finds on exams. Thus we did not use the html editor, preferring a simple text field. For longer essays, the assignment module is a better choice.

The student simply enters their essay in the box provided:

*Example Lesson - Slideshow with MC Questions and a Short Essay Question*

What are your thoughts on the linkage between Shady Grove and George Washington's picture?

Your Answer: There is a strong link which has much to do with open source:

Open source doesn't just mean access to the source code. The distribution terms of open-source software must comply with the following criteria:

1. Free Redistribution

The license shall not restrict any party from selling or giving away the software as a component of an aggregate software distribution containing programs from several different sources. The license shall not require a royalty or other fee for such sale.

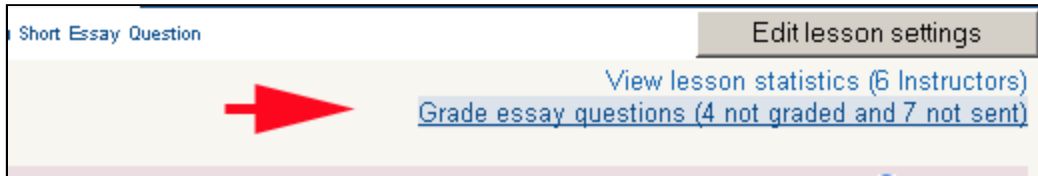
Rationale: By constraining the license to require free redistribution, we eliminate the temptation to throw away

Please enter your Answer in the Box

## 15.1 Grading Essays, Part 1

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To grade lesson essay questions, first click on the name of the lesson in your course page. If there are essay questions to be graded, there will be a link saying "Grade essay questions" (see red arrow). Click that link.



This will open a screen showing you how many ungraded essay questions there are. Ungraded essay questions will be listed in red. Click the link for the essay you wish to grade.

Go back to lesson		
Students	Essays	Email
demo7, demo7	<a href="#">Write an Essay</a>	<a href="#">Email graded essays</a>
demo8, demo8	<a href="#">Write an Essay</a>	<a href="#">Email graded essays</a>
		<a href="#">Email ALL graded essays</a>

Go to the next page of this manual to see how to grade the essay.

## 15.2 Grading Essay Questions, Part 2

The essay grading screen shows the title of the question (1), the student's essay response (2), and a place you can write optional comments (3) and give the essay a score (4).

**Example Lesson - Slideshow with MC Questions and a Short Essay**

Question: ← 1  
 What are your thoughts on the linkage between Shady Grove and George Washington's picture

Test Atest's response: ← 2  
 The program must include source code, and must allow distribution in source code as well as a form of a product is not distributed with source code, there must be a well-publicized means of no more than a reasonable reproduction cost—preferably, downloading via the Internet without charge be the preferred form in which a programmer would modify the program. Deliberately obfuscated intermediate forms such as the output of a preprocessor or translator are not allowed.

Your Comments: ← 3  
 [Text input field]

Essay ← 4  
 5  
 4  
 3  
 2  
 1  
 0  
 0 ▼

Click the Submit grade button to record your score and comments.

Graded questions will be displayed in green:

**Go back to lesson**

Students	Essays	Email
demo7, demo7	<a href="#">Write an Essay</a>	<a href="#">Email graded essays</a>
demo8, demo8	<a href="#">Write an Essay</a>	<a href="#">Email graded essays</a>
		<a href="#">Email ALL graded essays</a>

Repeat the process to finish grading. Click the "[Email graded essays](#)" link to email your responses to your students.