TestOut[®]

TestOut's LabSim Plugin for BrightSpace

INTEGRATION GUIDE

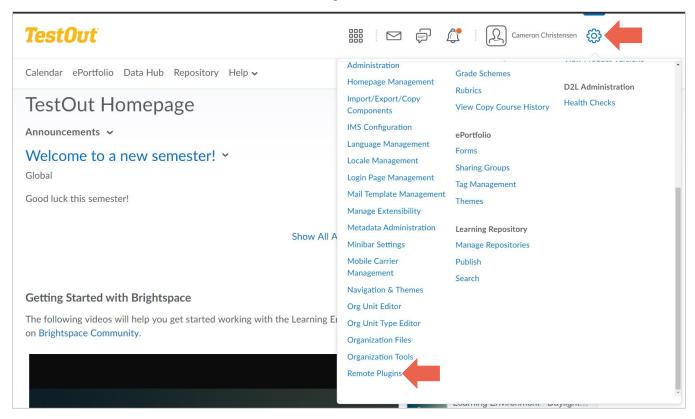
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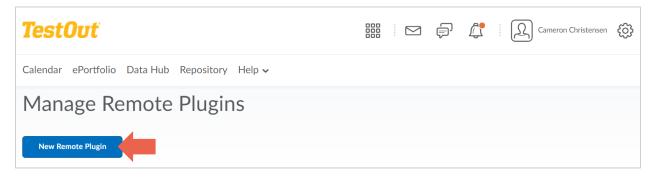
SETTING UP THE TESTOUT PLUGIN (BRIGHTSPACE ADMINS)

Setting up the Course Creation Plugin

Click on the Admin Tools icon and then select Remote Plugins.



Click on the New Remote Plugin button.

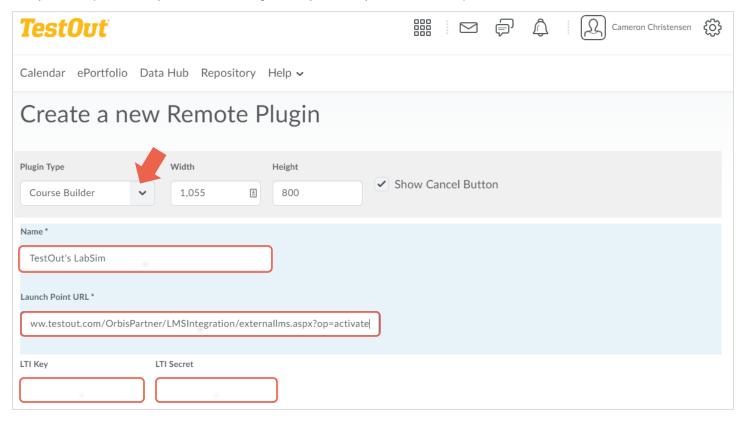


Select Plugin Type to be Course Builder.

Give the plugin a name (Something like TestOut's LabSim).

Insert https://www.testout.com/OrbisPartner/LMSIntegration/externallms.aspx?op=activate as the Launch Point URL.

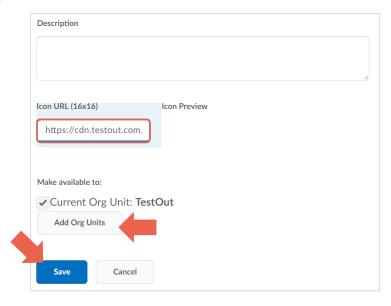
Add your campus LTI Key and LTI Secret given to you from your TestOut Representative.



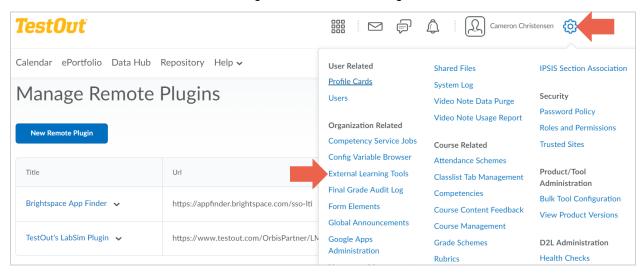
If you wish, you can use this URL (https://cdn.testout.com/labsimsaas/images_v2/t_logo.png) for a small TestOut icon.

Scroll down and press the *Add Org Units* button. Add the plugin to the departments, courses, and/or templates you wish to have the plugin available.

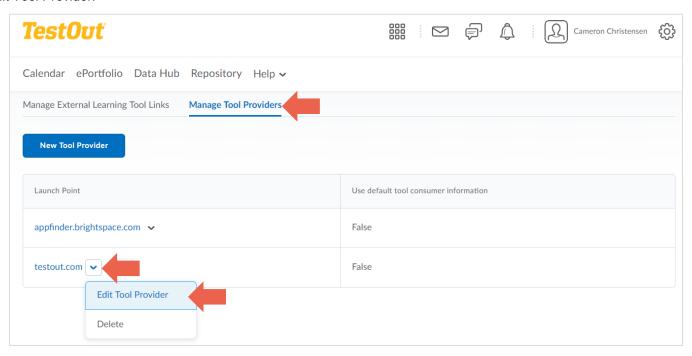
When finished, press Save.



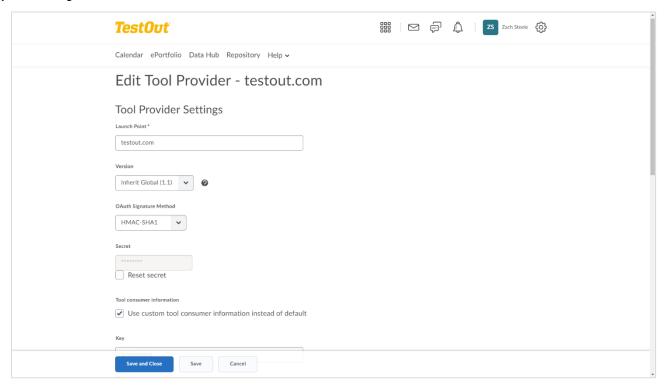
Next, click on the Admin Tools icon and then navigate to External Learning Tools.



Navigate to *Manage Tool Providers* and find the testout.com launch point. Press the dropdown menu icon and then select *Edit Tool Provider*.

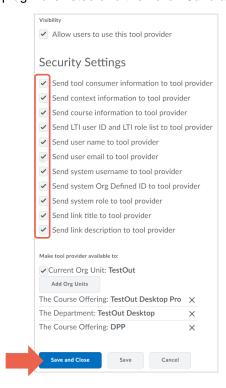


Verify the settings and scroll down.

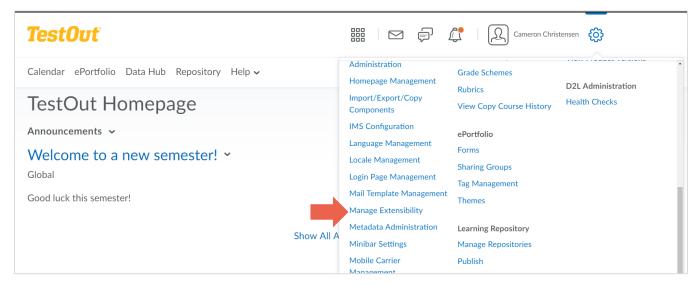


In the Security Settings section check all the options to send LabSim the necessary information to send the information needed to create LabSim accounts.

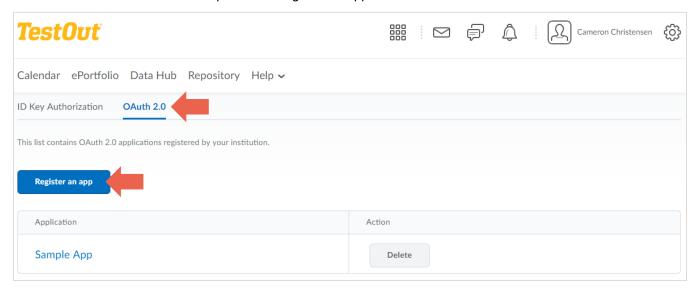
Verify that the org units that will use the plugin are listed and then click Save and Close.



The final step is to click on the Admin Tools icon and then select Manage Extensibility.



Select the OAuth 2.0 tab and then press the Register an app button.



Name the application TestOut (or something similar).

Fill in the Redirect URL with:

https://www.testout.com/OrbisPartner/LMSIntegration/externallms.aspx?op=auth

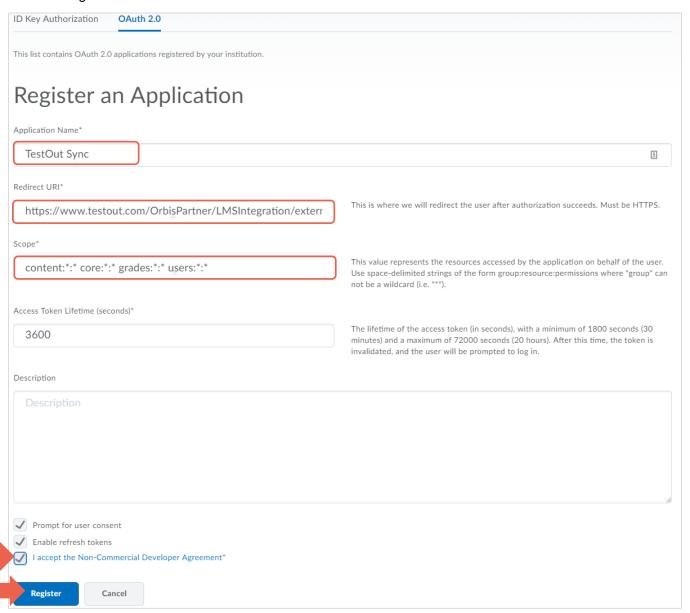
Add the following for the *Scope*:

content:*:* core:*:* grades:*:* users:*:*

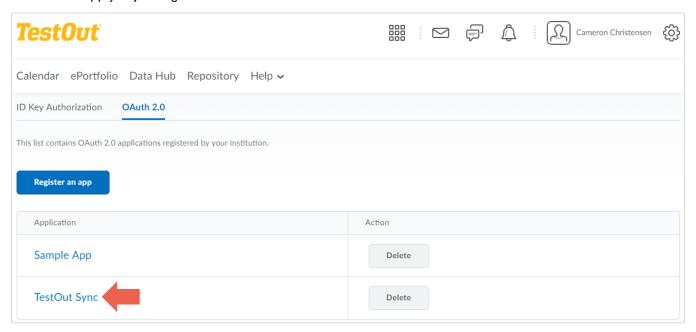
For restrictive scopes see Appendix B.

Check the box I accept the Non-Commercial Developer Agreement

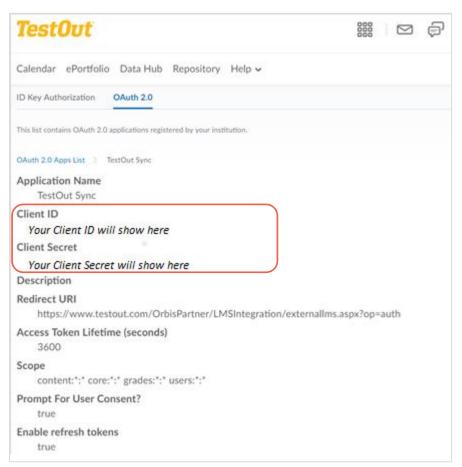
Click the Register button.



Click on the app you just registered.

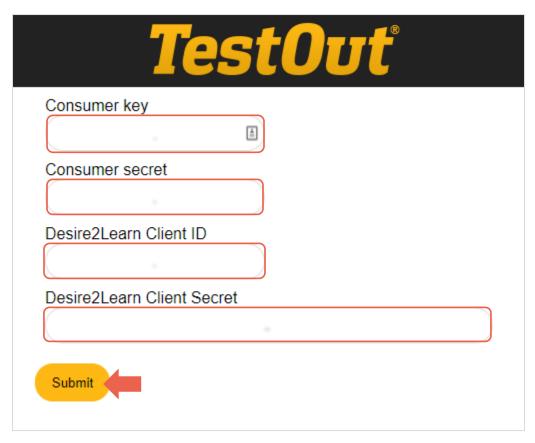


Take note of the Client ID and Client Secret. You will need to submit these values to TestOut in the next step.



Navigate to https://cdn.testout.com/d2l-signup/index.html. Input your Consumer Key and Consumer Secret that were sent to you by your TestOut Representative.

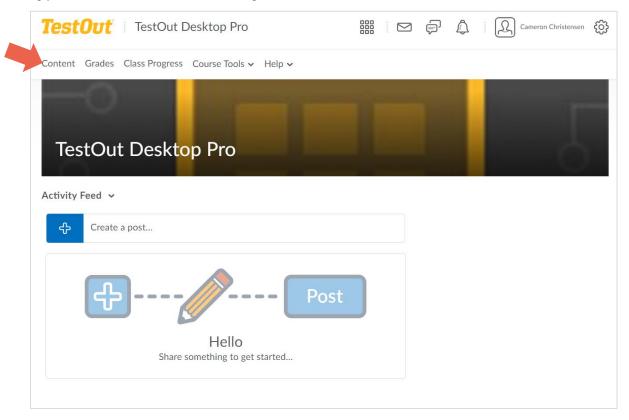
Next, input your *Client ID* and *Client Secret* (created when you registered your new app) into their respective fields. Click *Submit*.



ADDING TESTOUT CONTENT TO YOUR COURSE (ADMINS/INSTRUCTORS)

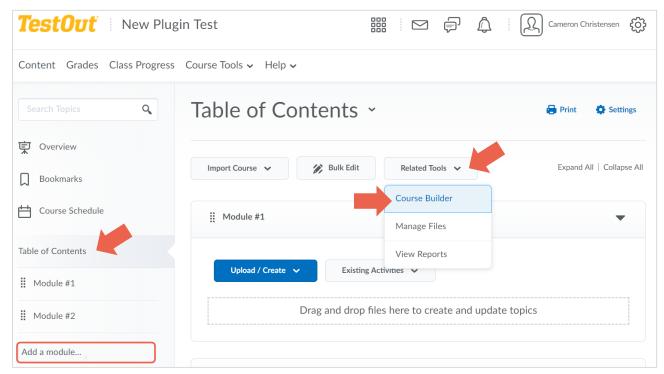
Linking To TestOut Course Resources

After creating your course with a start date, navigate to the Content section of the course.

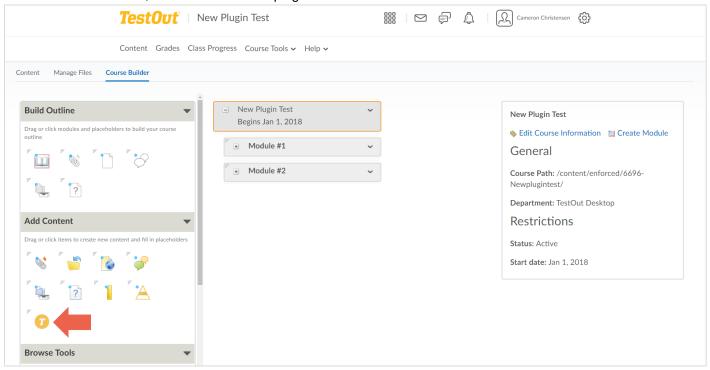


Create a module to put assignment links into. After doing so click *Table of Contents*.

On the *Table of Contents* screen select the *Related Tools* dropdown and then *Course Builder* (You can also access *Course Builder* through the *Course Admin* screen).



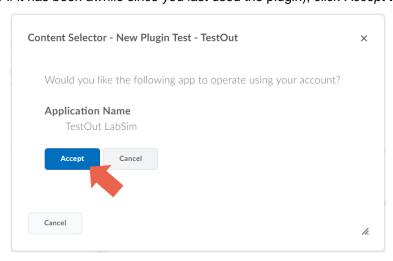
Inside of Course Builder, click on the TestOut plugin inside of the Add Content section.



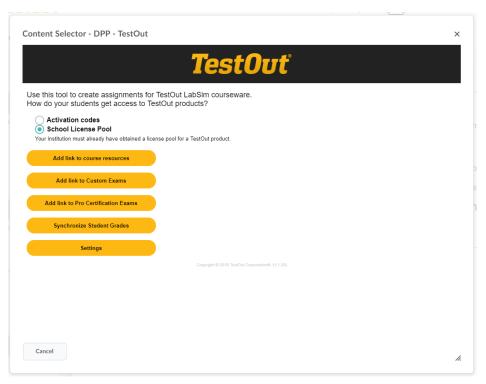
Select the module that you would like to create links in.



The first time you launch (or if it has been awhile since you last used the plugin), click *Accept* to launch the plugin.



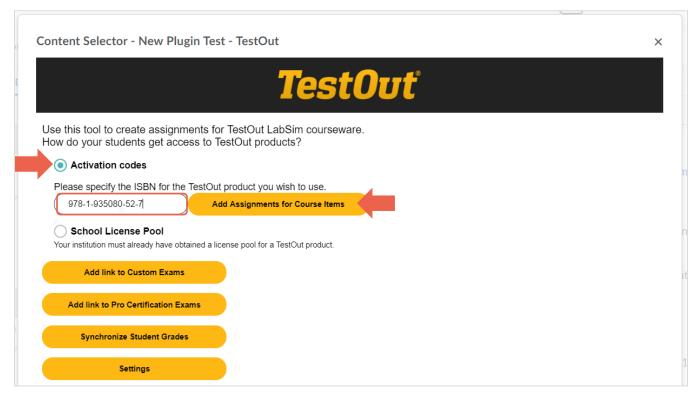
The plugin will load, allowing you to select how your students gain access to TestOut's products: Activation Codes or License Pools,



Activation Codes

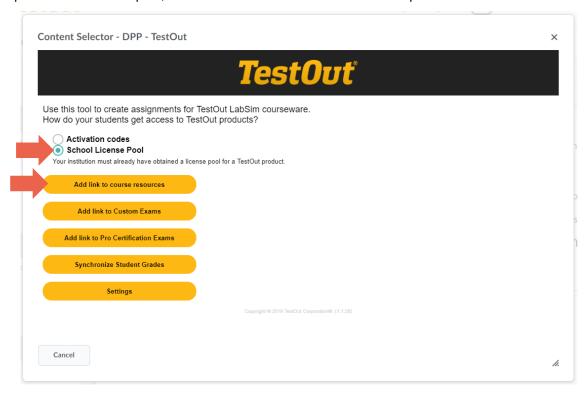
If students obtain an activation code (purchased through TestOut or through a bookstore), select the *Activation Codes* and then insert the ISBN of the product you will be using for the course.

Press Add Assignments for Course Items.

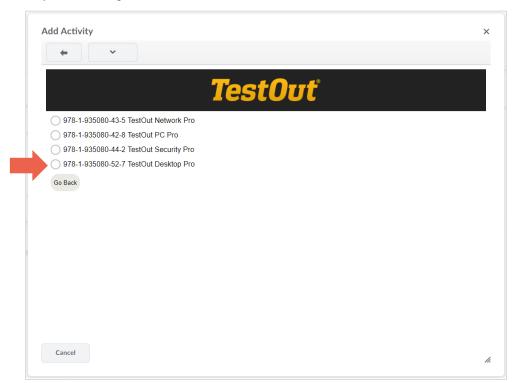


School License Pool

If the school purchases a license pool, select the School License Pool and then press Add link to course resources.



Select the product that you are using in this course.

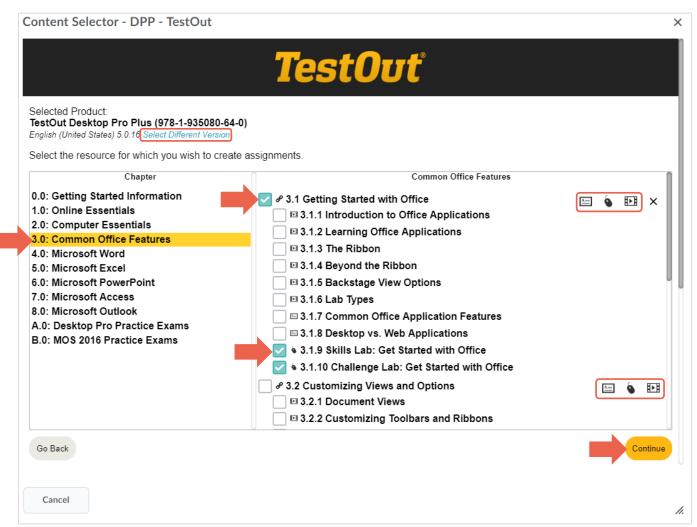


At this point, both methods lead you to an outline of the product you are linking to.

First, the first time that you create links for a course, assure that you are linking to the correct version of your product. Next, select the chapter you wish to link to and the resources within that chapter will appear on the right-hand side.

Select a Section Heading or resource to create an assignment link for each selected item.

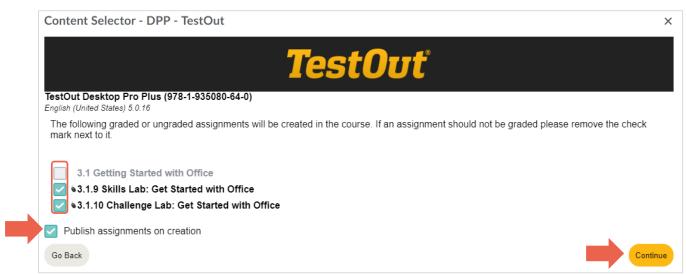
Tip: To select all the resources of a specific type within a section (or unselect them), click the icons on the far right. Click Continue.



On this next page, you will see a summary of the links that you are creating.

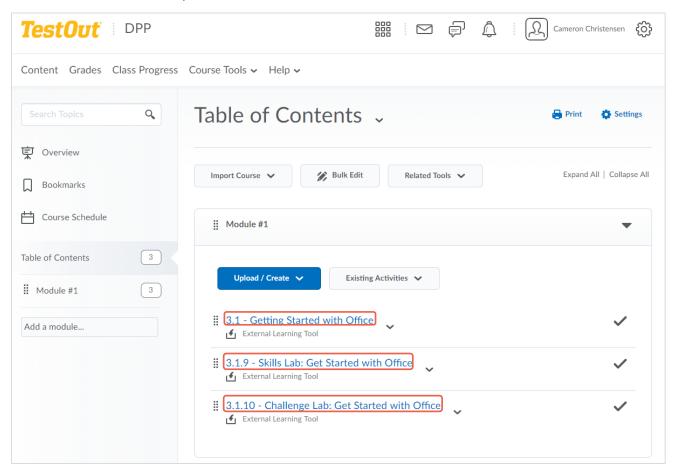
To create a link without a gradebook column, uncheck the box next to the assignment. Click Continue.

Please Note: Section Headings are not graded and therefore automatically unchecked.



Navigating back to your BrightSpace course, you will see the links have been added to your module.

To access the LabSim courseware, click the created link.



Activation TestOut Courseware

Clicking on a link to access a LabSim resource the first time will give you a different experience based on your role within the course.

Admins & Instructors

Admins & Instructors will be given a license to the product automatically when they click on a link for the first time.

Students

The student activation experience will be based on your licensing method selection setting up the links through the plugin.

For schools purchasing a multi-user license, students will be given immediate access to the product and your license pool will be deducted one license.

If the student purchases/receives an activation code and has not used it to create an account, they will see the screen below.

Students will input the activation code and press Activate.



Once the product has been activated, click here to launch the course or go back.



The activation code has been successfully applied to your account. Please click <u>here</u> to launch the TestOut content.

Student Grades Returning to BrightSpace

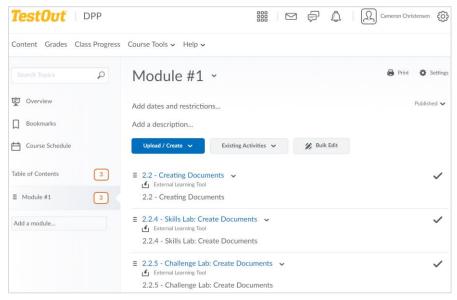
When an assignment link is created using the Plugin, a BrightSpace gradebook column is also created.

When a student clicks on a link and completes a LabSim resource, that score will be transferred to BrightSpace within 1-2 minutes.

The **latest score** will be passed to Brightspace. If your schools wants to only receive the **highest score** in your Brightspace gradebook, please contact your TestOut representative.

Note: There is a one-to-one relationship between the link and the gradebook column. A student must click on each link for LabSim to know where the score should be placed in the BrightSpace gradebook (even if the resource has been completed prior inside of LabSim).

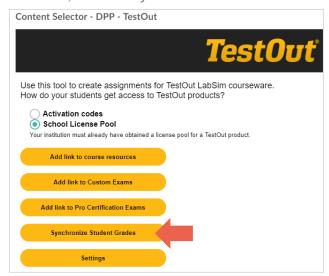
For example, on the screen below, if a student clicks on and completes the lab 2.2.4 and goes on to complete 2.2.5 without returning to Brightspace and clicking on that link, only the score for 2.2.4 will come back to the Brightspace gradebook if the instructor doesn't use the Sync score button.



If an instructor of a course would like to insure that their gradebook is up to date, instructors can access the Plugin through *Course Builder* and press the *Synchronize Student Grades* button.

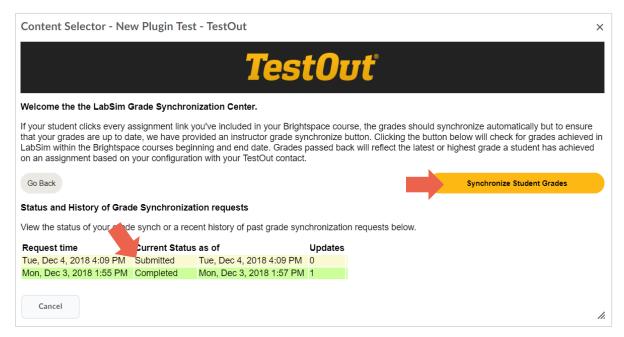
This will go grab all scores for all students in that instructors' classes, regardless of if the students clicked every link.

Note: Only grades achieved in LabSim after the Brightspace course start date will be sent to Brightspace. If your Brightspace class does not have a start date, the score sync will not work.



Once in the LabSim Grade Synchronization Center, you can Synchronize Student Grades by pressing the button. After you press the button, you will see the request as *Submitted*. You will also see a history of previous updates.

Note: If you have set due dates on any of your created Brightspace assignment, the sync score will not sync grades obtained in LabSim outside of those due dates.

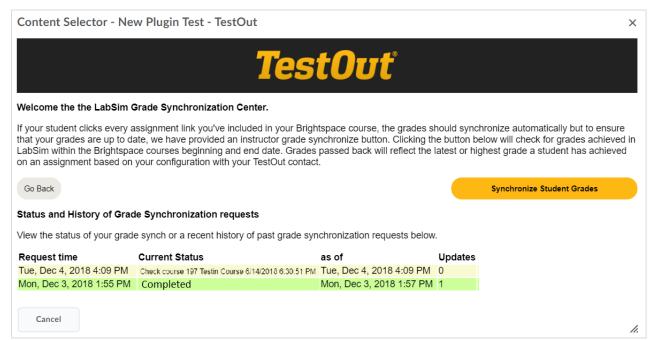


Once the requests starts to process, you will see the current class that is being processed in the Current Status column. You will see this check all classes in which you are assigned as the instructor (including those you don't use TestOut in).

The updates column tells you how many grades have been updated. The final column tells you the progress of the sync (Top bar=overall progress, bottom bar=progress within the current course).

Note: The sync score button only updates scores that have obtained during Brightspace class start and end date.

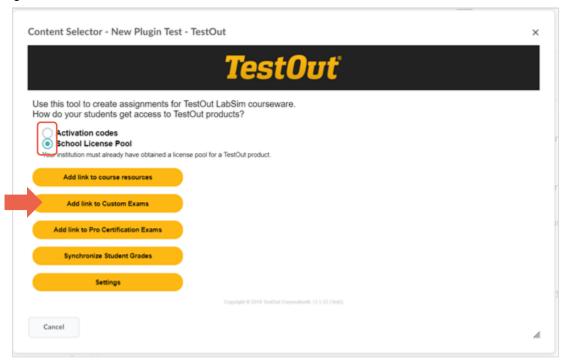
Note: The sync score button respects any assignment due dates. If an assignment was completed after the due date, it does not update the score in the Brightspace gradebook.



Linking to a Custom Exam

To create a link for a Custom Exam, access the Plugin and choose the licensing method your school uses.

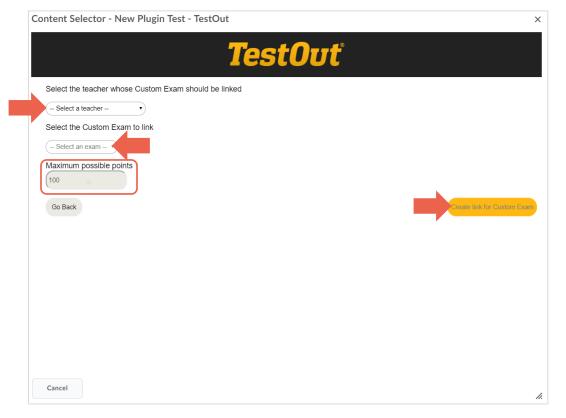
To add an assignment link to a Custom Exam inside of LabSim, click on the Add link to Custom Exams.



First, select the teacher who created the custom exam. Next select the Custom Exam.

Then select the number of points that you would like the Custom Exam to be worth inside of the BrightSpace gradebook (Please note, this will not change the value of the Custom Exam inside of LabSim, only BrightSpace).

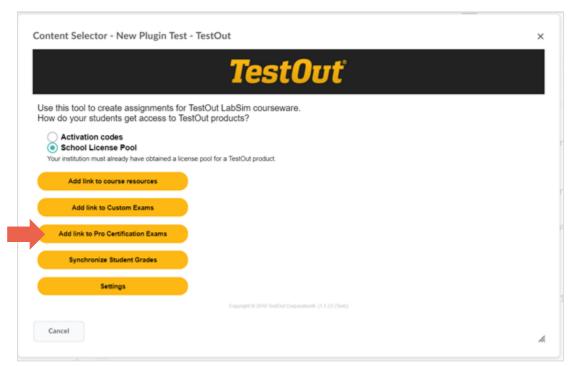
Click Create link for Custom Exam and the link will be placed into the course content.



Linking to a TestOut Pro Certification Exam

To create a link for a TestOut Pro Certification, access the Plugin and choose your school's licensing method.

To add a link to a TestOut Pro Certification Exam, click on Add link to Pro Certification Exams.



Select the Pro Certification you want to create a link for and then select the number of points that you would like the Pro Certification to be worth inside of the BrightSpace gradebook (*Please note this will not change the value of the Pro Certification inside of LabSim*).

Click Create link for Pro Certification Exam.



Appendix A: Brightspace Security Settings Details

Security Setting	LabSim Use	
Send tool consumer information to tool provider	Pass Consumer Key/Secret and other	
	parameters associated with the tool consumer	
	to LabSim (tool provider) so we will let a user	
	access the system through Brightspace.	
Send context information to tool provider	Tells LabSim who you are and that you are	
	coming from Brightspace	
Send course information to tool provider	Tells LabSim information on what school you are	
	so that we can associate new users to the	
	correct LabSim school. And passes class	
	information to LabSim so we can create and	
	associate the user to the correct class.	
Send LTI user ID and LTI role list to tool provider	LTI User information	
Send user name to tool provider	User information, including role	
	(instructor/student). Create accounts in LS	
Send user email to tool provider	LabSim uses user emails as a part of account	
	creation/linking an existing account. Also used	
	for support as a distinguishing aspect.	
Send system username to tool provider	LabSim uses this D2L information to track and	
	sync grades back to Brightspace.	
Send system Org Defined ID to tool provider	LabSim uses this information to track and sync	
	grades back to Brightspace.	
Send system role to tool provider	Information LabSim uses to create an account	
	and assign a LabSim role to an account	
	(instructor or student role)	
Send link title to tool provider	Used to direct the user to the correct resource in	
	LabSim.	
Send link description to tool provider	Used to direct the user to the correct resource in	
	LabSim.	

Appendix B: Brightspace Scopes Details

Restrictive Scopes:

content:modules:read,write content:toc:read core:*:* grades:gradeobjects:read,write grades:gradevalues:read,write users:userdata:read

API Post	What it does
GET /d2l/api/lp/1.9/users/{userId}	Gets details about a
	user
GET /d2l/api/lp/1.0/users/whoami	Tells LabSim who is
	running the plugin
GET d2l/api/lp/1.8/enrollments/myenrollments	Tells LabSim which
	courses are they
	enrolled in
GET /d2l/api/le/1.12/lti/link/{orgUnitId}/	Tells LabSim the links
	in a course
GET /d2l/api/le/1.12/{orgUnitId}/grades/	Tells LabSim the
	gradebook columns
	for a course
GET /d2l/api/le/1.8/{orgUnitId}/grades/{gradebookcolumn}/values/	Tells LabSim grade
	values for a gradebook
	column
GET /d2l/api/lp/1.9/courses/{orgUnitId}	Tells LabSim course
	details
GET /d2l/api/le/1.12/{orgUnitId}/calendar/events/	Tells LabSim course
	start date/end date
POST /d2l/api/lp/1.9/{orgUnitId}/grades/	Create grade column
PUT /d2I/api/le/1.9/{orgUnitId}/grades/{columnId}/values/{userId}	Update grades
GET /d2l/api/le/1.5/{orgUnitId}/content/toc	Gets TOC for the
	course
POST /d2l/api/le/1.12/lti/link/{orgUnitId}	Create an LTI link
POST /d2l/api/le/1.12/lti/quicklink/{orgUnitId}/{ltiLinkId}	Create a quick link to
	LTI link
POST /d2l/api/le/1.12/{orgUnitId}/content/modules/{moduleId}/structure/	Creates a topic