



## **LTI Tool Admin Guide – D2L**

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## Getting Started - Requesting Credentials from Barnes & Noble College

The LMS Administrator will need to request a key and secret in order to successfully author links for courses in the LMS.

Following are instructions on how to access and request a consumer key and shared secret:

- Navigate to the following URL:  
<https://blti.bncollege.com/registration/consumer>
- Complete the form, taking note of the required fields:

Field Name	Description
LMS Type	Please select the LMS used at your institution (e.g. Desire2Learn).
School	Enter your institution's name in this field. This is a free form text box with no character limits.
Email	Please enter your institutional email address. An auto-generated email will be sent to this address when the consumer key and shared secret are created.
First Name	Enter your first name in this field.
Last Name	Enter your last name in this field.
Phone	Enter your phone number in this field.
Job Title	We recommend that you also enter your job title. This will help Barnes & Noble College know this request is legitimate.
CAPTCHA	For security purposes. This step must be completed before the credential request can be submitted for processing.

If your institution employs multiple learning management systems, a separate key request will need to be submitted for each.

Once all the required fields including CAPTCHA are successfully filled, click the **Submit** button to submit the key and secret request.

After the credential request has been successfully submitted, the system will direct you to a success page. You will also receive a confirmation email from the Barnes & Noble College LTI support team with steps to [test the connectivity](#) (also seen in the next step) and further instructions to set up the LTI integration.



Your consumer key and shared secret will be generated and sent to your provided email address, after you have provided Barnes & Noble College with all of the information requested in the following step.

## Testing Link Connectivity with Barnes & Noble College

By testing the link connectivity, you are providing Barnes & Noble College with the parameters used within your D2L instance. Knowing the Course ID or Course Registration Number format used by your campus will help us devise an algorithm to link students to the correct course materials and instructors to their correct courses.

Below are the steps to test connectivity in Brightspace by D2L:

Steps
1. Log in to Brightspace by D2L as a Super Administrator user.
2. Navigate to an available SIS or manually-generated course, preferably from a recent term.
3. Click on <b>Content</b> (Navbar link) or <b>Content Browser</b> (located under the Navbar).
4. Under the Table of Contents, click into the text box where the “Add a module...” text is visible and type “Bookstore” in the field.
5. Hit the <b>Enter</b> or <b>Return</b> key on your keyboard. “Bookstore” will now appear as a module under the Content area.
6. Select the <b>Course Admin</b> link located in the Navbar.
7. Click <b>External Learning Tools</b> , under Site Resources.
8. Click <b>New Link</b> under the Manage External Learning Tool Links tab.
9. On the New Link page, enter the following in the fields: <ul style="list-style-type: none"><li>• Title: BNC Connectivity Test</li><li>• URL: <a href="https://blti.bncollege.com/lti/1.1/debug">https://blti.bncollege.com/lti/1.1/debug</a></li><li>• Description: <i>none</i></li><li>• Visibility: Check the box to allow users to view the link</li><li>• Key/Secret: Check the option for “Sign messages with key/secret with,” then select the radio option for “Link key/secret”</li><li>• Key: <i>type in test</i></li><li>• Secret: <i>type in test</i></li><li>• Custom Parameters: <i>none</i></li><li>• Security Settings: Click the radio button for “Use link security settings” and ensure all check boxes are selected</li><li>• Make link available to: Ensure that the appropriate Org Unit is selected. The “Add Org Units” button will allow you to select additional units, if necessary.</li></ul>
10. Click <b>Save and Close</b> .
11. The BNC Connectivity Test LTI tool will appear on the list of external tool links.
12. Click <b>Content</b> again to return to the Content page.
13. Select the Bookstore module.
14. Click on <b>Existing Activities</b> , and select <b>External Learning Tools</b> .
15. In the Add Activity window, click on BNC Connectivity Test.

**Steps**

16. The **BNC Connectivity Test** link will appear within the module. Click on it to launch the connectivity test.

17. Once the LTI Parameters appear, click “**Send LTI Parameters to Barnes & Noble College.**”

18. Enter your email, school, and a brief message, then click **Submit**.

19. Please repeat the test for courses of different formats, e.g. multi-section or cross-listed courses.

20. Once testing is complete, please email a listing of term codes for the academic year (e.g. **F19 = Fall 2019, etc.**) to [ltisupport@bncollege.com](mailto:ltisupport@bncollege.com).

21. Delete the placement for the BNC Connectivity Test once you have submitted the results to Barnes & Noble College. Otherwise, instructor and student users may attempt to use it.



If you have trouble submitting your connectivity test, send a screenshot to [ltisupport@bncollege.com](mailto:ltisupport@bncollege.com).

## System-Level External Tool Configuration

In this section, the D2L administrator will create external tools that will enable the following LTI link globally in D2L:

- **Purchase Course Materials**
  - This LTI link will direct students to their course materials on the official bookstore website.


These steps are to be executed after the connectivity test is complete and the consumer key and shared secret have been issued by Barnes & Noble College. **We suggest setting up these links in a staging environment for testing before implementing in your production environment.**

### Setup for “Purchase Course Materials” Link

Steps
1. Once you have received your key and secret, click on the gear icon at the top right-hand side of the page to view your Administrator options.
2. Under the Organization Related section, click on the <b>External Learning Tools</b> link.
3. Click <b>New Link</b> under the Manage External Learning Tool Links tab.
4. On the New Link page, enter the following in the fields: <ul style="list-style-type: none"><li>• Title: Purchase Course Materials</li><li>• URL: <a href="https://blti.bncollege.com/lti/1.1/launch/bn_wcs">https://blti.bncollege.com/lti/1.1/launch/bn_wcs</a></li><li>• Description: <i>View and purchase your course materials on the official bookstore website.</i></li><li>• Visibility: Check the box to allow users to view the link</li><li>• Key/Secret: Check the option for “Sign messages with key/secret with,” then select the radio option for “Link key/secret”</li><li>• Key: <b>Enter the consumer key provided to you via email.</b></li><li>• Secret: <b>Enter the shared secret provided to you via email.</b></li><li>• Custom Parameters: <i>none</i></li><li>• Security Settings: Click the radio button for “Use link security settings” and ensure all check boxes are selected</li><li>• Make link available to: Ensure that the appropriate Org Unit(s) is selected, so that the tool is available. The “Add Org Units” button will allow you to select additional units.</li></ul>
5. Click <b>Save and Close</b> .

## Adding the Bookstore Link to the Navbar

After you have added installed the LTI tool within D2L, please follow these steps to make sure that students and faculty will have access to it at the course level.

Steps	
1.	Hover over the Navbar.
2.	Click the gray box that appears to the right of the menu.
3.	Click <b>Edit this Navbar</b> .
4.	On the Edit Navbar page, locate the Links section and click <b>Add Links</b> .
5.	In the Add Links menu, click <b>Create Custom Link</b> .
6.	In the Create Custom Link menu, enter the following in the fields: <ul style="list-style-type: none"><li>• Name: <b>Purchase Course Materials</b></li><li>• URL: Click Insert Quicklink. Scroll down to External Learning Tools, and click <b>Purchase Course Materials</b></li><li>• Behavior: New window/tab</li><li>• Browser Attributes: Leave Menubar and Toolbar checked.</li><li>• Description: View and purchase your course materials on the official bookstore website.</li><li>• Icon: <a href="#">Download the icon</a> to your hard drive and upload it to the form.</li><li>• Availability: Check "Share with child org units." Leave "Limit to specific roles" blank.</li></ul>
7.	Click <b>Create</b> .
8.	The link will be selected. Click <b>Add</b> .
9.	Drag the link to your preferred location within the Navbar.
10.	Click <b>Save and Close</b> .
11.	The bookstore link will now appear in your default Navbar in courses where the menu is applied.
	If your institution uses multiple Navbar menus, please ensure that the bookstore link is installed in those menus as well.

## Adding the Bookstore Link to a Course Widget

If you use widget-based home pages in your D2L instance, follow these steps to set up the bookstore link in your default course homepage.

Steps
1. Open the <b>Admin Tools</b> by clicking the gear icon at the top right-hand corner of the homepage.
2. Under the Organization Related section, select <b>Homepage Management</b> .
3. Click the <b>Widgets</b> tab.
4. Find your student resources widget, or the widget where you wish to place the bookstore link. Ensure that this widget is available to students.
5. Click the pen icon to edit the widget.
6. Select the <b>Content</b> tab.
7. In the text box, type <b>Purchase Course Materials</b> .
8. Highlight the text with your cursor.
9. Click the hyperlink icon to insert a quicklink.
10. On the menu, scroll down to and select <b>External Learning Tools</b> .
11. Click <b>Purchase Course Materials</b> .
12. The Purchase Course Materials LTI link is now added to your widget.
13. Click <b>Save and Close</b> .
14. Click the <b>Homepages</b> tab.
15. Select your default course homepage.
16. Scroll down to widgets and ensure that your widget is in your default homepage.
17. If it is not, click <b>Add Widgets</b> on the part of the page where you would like to add it.
18. Use the filters to locate your widget.
19. Select it, and click <b>Add</b> .
20. Click <b>Save and Close</b> .



## Testing the Link

After placing the link, we recommend testing it before pushing it campus-wide. To include Barnes & Noble College in your testing process, please generate test credentials and share them with us via [ltisupport@bncollege.com](mailto:ltisupport@bncollege.com).

## Purchase Course Materials

Steps
1. Log into D2L Brightspace with student credentials.
2. Select a course that has the LTI link enabled.
3. Once in the course, click <b>Content</b> .
4. Select the module where you have placed the bookstore links.
5. Click the link for <b>Purchase Course Materials</b> . <ol style="list-style-type: none"><li>You will be redirected to your campus bookstore website in a new tab or window.</li><li>The pop-up may be blocked on the first attempt. Enable pop-ups from your browser.</li></ol>
6. On the first cross-over, you will be prompted to log into your campus bookstore website. <ol style="list-style-type: none"><li>Please click <b>Create Account</b>, fill out the required information, and click <b>Create Account</b> again to confirm.</li></ol>
7. You will be signed in, and your D2L account will be paired with the bookstore website. <ol style="list-style-type: none"><li>You will not have to log in again when using the Purchase Course Materials link in the future, whether from the same course or a different one.</li></ol>
8. On the bookstore website, you are provided with the course materials for the course you selected in D2L. Text materials will appear in all of the available formats (new, used, rental, and/or digital). <ol style="list-style-type: none"><li>Once you reach this point, the test is successful.</li></ol>
9. To further verify the account pairing: <ol style="list-style-type: none"><li>Hover over “Hello, [Your Name]” at the top of the page.</li><li>Click <b>My Account</b>.</li><li>Scroll down to “LMS Account.” If you are linked, you will have the option to unlink your account.</li></ol>

## Going Live

Once you have completed the setup of the Barnes & Noble College LTI links in your production environment, please let us know by reaching out to [ltisupport@bncollege.com](mailto:ltisupport@bncollege.com).

Please provide us with a screenshot of the link within your course, so that the store manager can advise students and faculty where to find the bookstore within D2L.

Upon going live, we provide the store manager with an email template that may be used to communicate the availability of the bookstore links in D2L. We can also provide how-to documentation for the student link to you and the store manager.

## Important Notes and Troubleshooting

### Error Messages

An error message may appear when the tool link is accessed. The most common errors include:

*400 Bad Request*

*403 Forbidden*

*404 Page Not Found*

*406 Cookie Error*

*500 Internal Server Error*

The message that appears will provide more detail as to the nature of the error, and actions to take to resolve it.

### Pop Ups Blocked

If the LTI link fails to launch, the pop-out window may be blocked. Please allow pop-ups from your D2L site, and then attempt the link again.

### Other Issues or Concerns – Contact Us

For help with other concerns relating to the LMS integration in D2L, please contact us by email:

Email Address
<a href="mailto:ltisupport@bncollege.com">ltisupport@bncollege.com</a>