

# Add Piazza to your LMS via LTI

LTI is a standard that enables 3rd party services, like Piazza, to integrate with learning management systems. All of the major LMSs now support LTI, and it's very straightforward to implement in your home-grown LMS. In most cases, it can be done in a single afternoon!

Here's a few resources to help you get started.

1. Writing LTI Stuff (very helpful!): <https://lti-examples.herokuapp.com/code.html>
2. IMS website: <http://www.imsglobal.org>
3. Credentials for LTI:
  - o Endpoint (must be https): <https://piazza.com/connect>
  - o Key: piazza.sandbox
  - o Secret: test\_only\_secret
4. LTI test harness (use this to play with LTI parameters and connect to Piazza): <http://dr-chuck.com/ims/php-simple/lms.php>
5. See mapping of LTI parameters below.
6. See starter code below.

Hosted LMS Environments:

Moodle: <http://demo.moodle.net/> un:admin pw:demo

Sakai: <http://nightly2.sakaiproject.org:8085/> un:admin pw:admin

Blackboard: coursesites.com User: nick4686 Password: password

You can email [integrations@piazza.com](mailto:integrations@piazza.com) to receive a key and secret for your school when you're ready to use the integration for real classes (it's free). **The key above is for testing purposes only and has limited functionality.** Please contact us if you have any questions about Piazza or would like help integrating.

## LTI Parameter Mapping

### Required LTI launch parameters:

lti\_version = LTI-1p0

lti\_message\_type = basic-lti-launch-request

resource\_link\_id = <identifies link placement in LMS>

user\_id = <unique identifier for user>

roles = <Instructor, Student, TA>

context\_id = <unique identifier for course>

tool\_consumer\_instance\_guid = <unique identifier for LMS>

### Recommended parameters:

lis\_person\_name\_full = <user name: Jane Q. Public>

lis\_person\_contact\_email\_primary = <user email: user@school.edu>

context\_title = <course name: Design of Personal Environments>

context\_label = <course number: SI182>

## Starter Code

This starter code is a working Piazza LTI consumer. It generates signed parameters that can be saved in a form or added to the body of a request.

Code: [Python](#), [Drupal](#)

Please reach out if you have questions about using or porting this code:  
[integrations@piazza.com](mailto:integrations@piazza.com).