

## LDAP Registration Option via the National Database

### National Registration Database

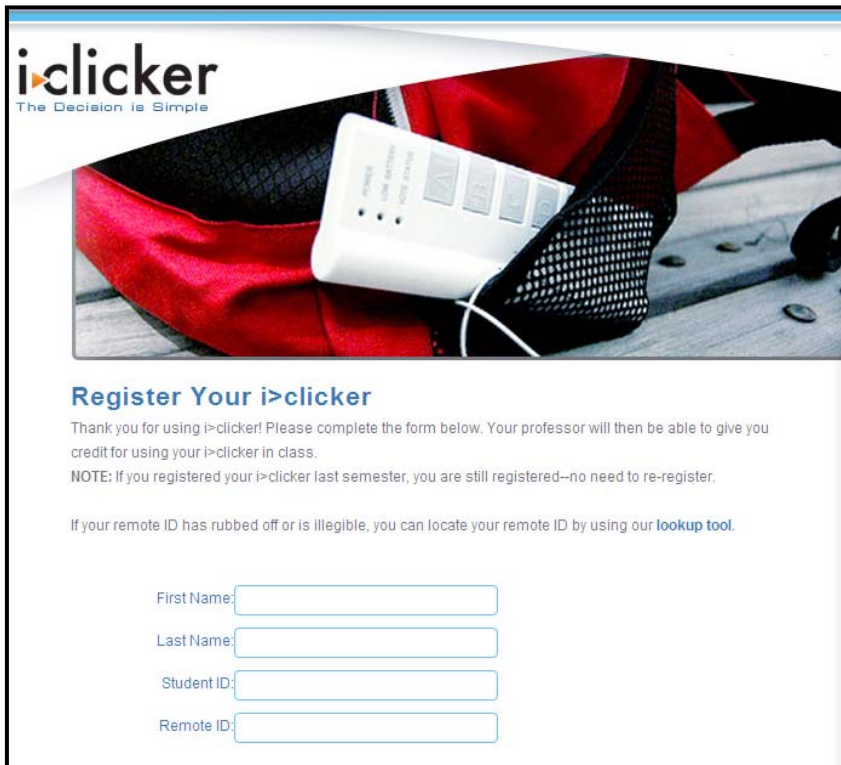
The most common method for registration is to have students go to the national web site: <http://www.iclicker.com>, select the register link, and enter the relevant information required on the screen:

Last Name  
First Name  
Student ID  
Clicker/Remote ID  
Captcha security field

Using a SQL database, i>grader then queries this database to associate a clicker with the appropriate student.

Recognizing that students often make mistakes, the software is fairly forgiving:

- If the clicker is not registered to any student in your roster with the same last name or same student ID, the software will ignore the registration (instead of manually prompting you to ignore the registration).
- If the clicker ID is exactly matched to a student last name and student ID, the system will automatically accept the registration (instead of asking you to decide).



**i>clicker**  
The Decision is Simple

**Register Your i>clicker**

Thank you for using i>clicker! Please complete the form below. Your professor will then be able to give you credit for using your i>clicker in class.

NOTE: If you registered your i>clicker last semester, you are still registered--no need to re-register.

If your remote ID has rubbed off or is illegible, you can locate your remote ID by using our [lookup tool](#).

First Name:

Last Name:

Student ID:

Remote ID:

**STILL, we recognize student errors are most common in the Student ID field. At major universities, students may have 2-3 different "student IDs" and therefore this field can be confusing even if you are explicit with instructions on your syllabus and in class.**

**We now have a solution to help resolve this issue, but it will require some coordination with your IT group. If your campus supports authentication and LDAP, it is possible to dramatically reduce student registration errors using the national registration site.**

We also offer a number of local registration options (where your students could register their clickers on your servers). A number of campuses have implemented this system, and there are numerous options, ranging from extremely simple to fairly robust. Please contact [support@iclicker.com](mailto:support@iclicker.com) to get more information on national registration options.

## Using LDAP,

### 1. The student logs in using your authentication system



2. The LDAP would pre-populate the national registration form at [www.iclicker.com](http://www.iclicker.com) with the appropriate information (student first name, last name, student ID).

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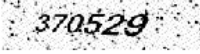
First Name:

Last Name:

Student ID:

Remote ID:

[Having trouble finding your clicker ID?](#)



Please type in the verification word in the image

**ENTER**

3. The student only needs to enter his/her i>clicker remote ID (the series of unique letters/numbers on the back of each clicker) and complete the security verification (captcha) field.

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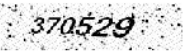
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The above process eliminates confusion regarding the appropriate student ID and also eliminates possibly typos without requiring you to host registration on your own campus (which is also an option).

**To implement LDAP registration on campus:**

1) Create a link to a script in an area the requires authentication for example

`<a href="https://onlins-s.physics.uiuc.edu/cgi/courses/shell/iclicker.pl">register</a>`

The screenshot shows a Mozilla Firefox browser window titled "Physics 212 Home Page - Mozilla Firefox". The address bar displays the URL "http://online.physics.uiuc.edu/courses/phys212/spring08/". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The page content includes a large orange "I" logo with a blue arc, the text "Physics 212 Spring 2008", a box titled "Announcements" containing the text "Be sure to bring your i>clicker to lecture. You can register it [here](#)", and two buttons labeled "Log In" and "Log Out". At the bottom, there is a footer with the text "Department of Physics | College of Engineering University of Illinois at Urbana-Champaign", a copyright notice "© Copyright 1999-2007 by the Department of Physics at the University of Illinois at Urbana-Champaign. If you have questions about this page, please e-mail [Johanna Wilde](#). Please specify the course number.", and a timestamp "Last updated 01/17/2008 10:38:42/jkw". The status bar at the bottom shows the URL "https://onlins-s.physics.uiuc.edu/cgi/courses/shell/iclicker.pl".

2) Modify the perl script below to match your school's authentication and LDAP protocol, and place it in the script area (addressed by your link, as noted in Step 1).

```
#!/usr/bin/perl
#-----
# Routine to lookup LastName and FirstName from LDAP
# Referenced from http://www.linuxjournal.com/article/7086
# and http://www.cites.uiuc.edu/ldap/index.html
#
#-----
use Net::LDAP;
#
# These lines make query the LDAP server to get student info
# NetID should contain the student's unique identifier based
# on their authentication.
#
$ldap = Net::LDAP->new("ldap.uiuc.edu");
my($NetID, $Last_Name, $First_Name);
$NetID = "tstelzer";
$mesg = $ldap->search(filter=>"(uid=$NetID)", base=>"dc=uiuc,dc=edu", attrs=> ['uid', 'sn', 'givenName']);
#
# Now get the values
#
if ($mesg->count == 1) {
    $Last_Name = $mesg->entry(0)->get_value("sn");
    $First_Name = $mesg->entry(0)->get_value("givenName");
}
    &WriteRegForm($First_Name, $Last_Name, $NetID);

sub WriteRegForm{
#-----
# This redirects browser to the registration page
# but fills in all of the appropriate values for them.
#-----

my($First_Name, $Last_Name, $uID)= @_ ;

    print "Content-type: text/html\n\n";
    print "<META HTTP-EQUIV=\"Content-Type\" CONTENT=\"text/html; charset=iso-8859-1\"> \n";
    print "<body text=\"black\" onload=\"iClickerRedirect();\"> ";
    print "<form name=\"Form1\" action=\"http://www.iclicker.com/registration/\" ";
    print "method=\"POST\" id=\"Form1\" target=\"_top\"> \n";
    print "<input type=\"hidden\" name=\"First_Name\" value=\"${First_Name}\" /> \n";
    print "<input type=\"hidden\" name=\"Last_Name\" value=\"${Last_Name}\" /> \n";
    print "<input type=\"hidden\" name=\"Student_ID\" value=\"${uID}\" /> \n";
    print "</form> \n";
    print "<script language=\"javascript\"> \n";
    print "function iClickerRedirect() { \n";
    print " document.Form1.submit(); \n";
    print " } \n";
    print "</script> \n";
    print "</body> \n </HTML>";
    print "</HTML>";
    exit;
}
```