CourseLeaf: Data APIs

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COURSELEAF: DATA APIS

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Page Data

Content from every page in your published catalog is available in XML format. Your catalog pages can be published as XML files upon request.

Each page has its own URL, for example:

http://<domainName>/undergraduate/college/department/index.html

To access the data from that page in XML format, change the page name from index.html to index.xml, for example:

http://<domainName>/undergraduate/college/department/index.xml

Please see the Appendix for an example of the returned data.

Leepfrog can set up the configuration to make XML data available upon request.

To submit a request, send an email to clhelp@courseleaf.com or submit a request to your Client Services Manager during your catalog implementation.
Course Data

Once the public site is published, Leepfrog provides a web API. This web API provides a facility to retrieve data about a particular course. The format of the call is as follows:

http://<domainName>/ribbit/?page=getcourse.rjs&code=<code>%20<courseNum>
(Note: <code> above may not contain any blank characters)

The data is returned to the caller as an XML document. An example of this is as follows:

<coursecourseinfo> <course code="AFAS 1011"> <div class="courseblock"> <p class="courseblocktitle"><strong>AFAS 1011. Foundations of the Air Force 1. 1 cr. hr.</strong></p> <p class="courseblockdesc">Introduction to the organizational structure and missions of Air Force organizations; officership and professionalism; and includes an introduction to communicative skills. Open to all students. Students pursuing an Air Force commission must register for AFAS 1051.<br /> </p> </div> </courseinfo>

Example:  http://bulletin.auburn.edu/ribbit/?page=getcourse.rjs&code=ENGL%201100

If you would like, you may also get all of the courses for a given subject code with this form of the service: http://<domainName>/ribbit/?page=getcourse.rjs&subject=<subjCode>

Example:  http://bulletin.auburn.edu/ribbit/?page=getcourse.rjs&subject=ENGL
Program Data

Once the public site is published, we provide a web API that provides a facility to retrieve data about a particular program or programs. This API is available for CIM Programs and will query only approved versions of programs. Generally, the data for this API is refreshed with catalog publication. The format of the call is as follows: `http://<domainName>/ribbit/?page=getprogram.rjs`

The data is returned to the caller as an XML document. An example of this is as follows:

```
<programinfo>
  <program code="AFAS 1011">
    <title>…</title>
    <college code="TST">Test</college>
    <department code="TST">Test</department>
    <degree>…</degree>
    <major>…</major>
    <acadlevel>…</acadlevel>
    <body>
      <![CDATA[
        ....
      ]]>  
    </body>
    <customfields>
      <field1>…</field1>
      <field2>…</field2>
      ....
      <fieldN>…</fieldN>
    </customfields>
  </program>
</programinfo>
```

Extra query parameters can be passed in via the query string in the HTTP call. Multiple query parameters passed in will be treated as an AND condition. The query fields available are:

- code – The CIM program code
- name – The name of the program
- college – The College/School code
- collegename – The College/School name
- department – The Department code
- departmentname – The Department name
- degreecode – The degree code
- majorcode – The major code
The asterisk (*) wild card character is supported to perform wild card searches. 

*Note*: Not all fields may be populated depending on which information is collected on the CIM program form.

**Examples:**

1. To retrieve all programs in the College of Engineering (assuming a college code of EN):
   
   [http://<domainName>/ribbit/?page=getprogram.rjs&college=EN](http://<domainName>/ribbit/?page=getprogram.rjs&college=EN)

2. To retrieve all Bachelor of Arts programs in the History department:
   
   [http://<domainName>/ribbit/?page=getprogram.rjs&department=HIST&degreecode=BA](http://<domainName>/ribbit/?page=getprogram.rjs&department=HIST&degreecode=BA)

3. To retrieve all programs that have “Business” in the program name:
   
   [http://<domainName>/ribbit/?page=getprogram.rjs&name=*Business*](http://<domainName>/ribbit/?page=getprogram.rjs&name=*Business*)
CourseLeaf Bubble Function

CourseLeaf’s bubbles allow the information to display in the bubble using the API above. With proper setup of your web environment, you may use the CourseLeaf display bubble function directly on your own web pages. You will need to code a proxy function because there is no way within the browsers to call the API via AJAX from a site other than the catalog domain; that restriction is enforced by the web browsers’ built-in cross-domain scripting security support.

Creating a PHP proxy is straightforward, the following would create a PHP proxy to display a course bubble:

```php
<?php
header('Content-type: text/xml');
$code = $_GET['code'];
$response = http_get("http://<domainname>/ribbit/?page=getcourse.rjs&code=" . urlencode($code), array("timeout"=>10), $responseText);
print($responseText);
?>
```

If that was named proxy.php, you would just have to call "proxy.php?code=ABC 123" to return the course description.

You will need to include the LFjs and jQuery libraries to have access to the bubbles. You can use the following script:

```html
<script src="http://<domainname>/js/lfjs.js"></script>
<script src="http://<domainname>/js/jquery.js"></script>
```

You then need to create a local function to be called when a link is clicked. The function may look like this (notice we are calling the proxy.php defined above to retrieve the course description):

```javascript
function showCourse(domobj, which) {
    if (typeof coursebubblewidth == "undefined") {
        if(typeof bubblewidth == "undefined")
            var coursebubblewidth = 400;
        else
            var coursebubblewidth = bubblewidth;
    }
    function showCourseReady(req) {
        if($(req).find("course").length) {
            var html = $(req).find("course").text();
        } else {
            var html = "<p>Course information cannot be found. This course may " +
            "no longer be offered. If you believe there is an error or " +
```
"require more information, please contact the course " +
"department.";
}
}
lfjs.bubble(domobj, html, {width:coursebubblewidth});

function showCourseError(req) {
    var html = "<p>An error occurred trying to load course inormation. Please try your
request again later. ( " + req.status + " - " + req.statusText + ")</p>";
    lfjs.bubble(domobj, html, {
        width: coursebubblewidth
    });
}

domobj.blur();
var gcurl = "proxy.php?code=" + encodeURIComponent(which);
//if there is an archivepath var and an edition var defined, use that in the getCourse call
if(typeof edition != "undefined" && typeof archivepath != "undefined") {
    gcurl += ";edition=" + encodeURIComponent(edition);
}
$.ajax({
    url:gcurl,
    success:showCourseReady,
    error:showCourseError
});
lfjs.bubble(domobj, "Loading course description...", {width:coursebubblewidth});
return false;

A sample link would look like:
<a href="#" onclick="return showCourse('ABC 123');">Course Description for ABC 123</a>
## MAJOR AND MINOR REQUIREMENTS

### Requirements for Elementary Education Major (Grades K - 5)

All Elementary Education students who wish to receive a State of New Jersey Teaching Certificate (K-5) are also required to complete an academic major chosen from those offered by the college in the arts, humanities, social sciences, mathematics, science, or technology disciplines. The chosen major must be the full academic major offered by an academic department or it may be a multi- or inter-disciplinary major such as American Studies or a composite major. Students must complete a Double Major form which is available in the Registrar’s office. Elementary Education students must complete the following courses. Students who wish to take a course out of sequence should check with their departmental advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ED-160</td>
<td>Aims of American Education</td>
<td>3</td>
</tr>
<tr>
<td>ED-170</td>
<td>Child &amp; Adolescent Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED-202</td>
<td>Elementary Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EE-202</td>
<td>Teaching Mathematics in Elem Sch</td>
<td>3</td>
</tr>
<tr>
<td>EE-206</td>
<td>Teaching Language Arts: Elem School</td>
<td>3</td>
</tr>
<tr>
<td>EE-208</td>
<td>Teaching Reading Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EE-209</td>
<td>Teaching Science in the Elem Sch</td>
<td>3</td>
</tr>
<tr>
<td>EE-212</td>
<td>Tchg Mathematics in Elem Sch</td>
<td>3</td>
</tr>
<tr>
<td>EE-214</td>
<td>Tchg Science in the Elem Sch</td>
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### Degree of Bachelor of Arts

All Elementary Education students who wish to receive a State of New Jersey Teaching Certificate (K-5) are also required to complete an academic major chosen from those offered by the college in the arts, humanities, social sciences, mathematics, science, or technology disciplines. The chosen major must be the full academic major offered by an academic department or it may be a multi- or inter-disciplinary major such as American Studies or a composite major. Students must complete a Double Major form which is available in the Registrar’s office. Elementary Education students must complete the following courses. Students who wish to take a course out of sequence should check with their departmental advisor.

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</table>

### Special Notes on Core Curriculum Requirements for Elementary Education Majors

To receive a State of New Jersey Teaching Certificate (K-5), students must complete the following requirements:

- Complete the Core Natural Science Requirement.
- Complete the Core Mathematics Requirement.
- Complete the Core English Requirement.
- Complete the Core Social Science Requirement.
- Complete the Core History Requirement.
- Complete the Core English Language Arts Requirement.
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null Prereq: Take ED-490 ED-491.