

# Digital Content Store API Documentation



## Digital Content Store

DCS Course Content URL API

Technical specification

Version 1.1

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## Document Control

### Change Control

Version	Name	Position	Date	Description
0.1	Kieran Burke	Business Analyst	04 Oct 2016	First draft
0.2	Alex Cole	Senior Business Analyst	11 Oct 2016	Review and changes
1.0	Alex Cole	Senior Business Analyst	19 Oct 2016	Final version
1.1	Kieran Burke	Business Analyst	07 Apr 2017	Removed description from '/GetCourseContent' call

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## Introduction

### Purpose

This document describes the Digital Content Store (DCS) Course Content URL API which allows a client to present course data and the content links and metadata from subscribed institutions. It is intended that this service will be used by Third Party Vendors of technology to CLA Higher Education Institutions (HEIs) or by CLA Licensed HEIs to serve content links in their systems.

### Scope

This document includes the three methods currently implemented in the API, along with specifications and examples. Changes that may occur in the API will provoke a new document being provided. This document will not include any information about how the data should be used or manipulated in a system, though sequence diagrams are provided to show call order scenarios.

The DCS API uses HTTP GET methods for the requests. Responses are given as JSON data.

### Glossary

Term	Meaning
DCS	The Digital Content Store, a web application provided to CLA licensees in the Higher Education Sector
API	Application Programming Interface is a source code based specification intended to be used as an interface by software components to communicate with each other
HTTP	Hypertext Transfer Protocol. An application protocol for exchanging files (text, graphic images, sound, video, and other multimedia files) on the Web
GUID	Globally Unique Identifier
JSON	JavaScript Object Notation
URL	Uniform Resource Locator. The address of a resource accessible on the Web. The URL includes the name of the protocol required to access the resource, identifies the address of a specific server on the Web, and contains a hierarchical description of a file location on the server
DOI	Digital Object Identifier
ISBN	International Standard Book Number. Uniquely identifies a single manifestation of a work. ISBNs are used for monographic publications
ISN	International Standard Number. A generic term referring to both ISSN and ISBN identifiers

ISSN	International Standard Serial Number. Uniquely identifies a journal. ISSNs are used for periodical publications
Manifestation	An individual book or serial. Different published editions of the same textual work are different manifestations. (For example, the Penguin Popular Classic edition of <i>Pride and Prejudice</i> is a separate manifestation to the Oxford World Classics edition)
HEI	Higher Education Institution
Course	A Course of Study: any whole course of study or any module or segment of a student's studies which is normally regarded by the Licensee as a discrete and self-contained unit for the purposes of examination or assessment or, in the case of a non-credit bearing course, that particular course
Content	A PDF item
OCR	Optical Character Recognition

## Service Description

This section gives an overview of the Digital Content Store (DCS) Course Content URL API and gives a high level description of the functionality. The subsections will include details on the methods in place, some information on the interaction of the DCS with the API, and important knowledge about system activity and periodic events.

### Overview

The DCS is a workflow tool for librarians in HEIs to help with the process of sourcing and clearing digitisation requests required for course packs and reading lists. Documents are stored in the system as PDF files. When a request is completed a URL is published that allows authorised users at the institution to access the content. Each content URL is specified by course and requires the end user (typically students) to authenticate to access the content. The DCS API allows external systems to publish the content links and associated metadata on a course by course basis. CLA will create the client system credentials within the DCS so that administrators of the HEI accounts can let the clients subscribe to their courses.

The API is comprised of three methods; *GetInstitutions*, *GetCourses* and *GetCourseContent*. Content retrieval is only possible using the HEI and course codes provided by the relevant methods.

### Getting Started

The following steps need to be completed

1. Terms and Conditions agreed
2. CLA sets up the API user account on the DCS system
3. Testing can commence on the demo (aka sandbox) environment
4. Once testing is complete, HEI administration users can create the subscription of the API system for their institution on the production environment

### Architecture

The DCS API uses the HTTP protocol and returns data in the JSON format.

### Subscription

Once the API account has been added to the DCS system, HEI users (HEI administrator level only) will have the option to subscribe the API to their institution. Once they have allowed the subscription their details and courses and content will be available to the calling API system.

As HEIs only appear in the *GetInstitutions* response when they have allowed the subscription to the API system, you will have to notify the HEI that your system is now available, as CLA do not have the right to subscribe on behalf of an HEI. HEIs can be referred to our helpdesk and knowledgebase available at <https://cla.zendesk.com/hc/en-us>.

### Get Institutions

This service can be used to check which HEIs have enabled access to your platform/service and to retrieve the HEI IDs needed on the subsequent calls.

## Get Courses

Using the retrieved HEI ID, this method will provide you with a list of courses in the current academic year for the nominated HEI and data relating to the course. Each course has a course code that is used for identifying the course in the *GetCourseContent* calls.

## Get Course Content

The links for a nominated course are provided with associated metadata, including bibliographic details and some details relating to the file that is accessed through the link. The HEI ID and the course code must both be provided.

## State Changes in Courses and Content

See *Appendix 2 for content status definitions*.

Courses may be in one of the following states:

- Active
- Archived
- Deleted

Calling the *GetCourses* method will only return courses in the *Active* state. As courses transition to *Archived* or *Deleted* from being *Active* they will be removed from subsequent updates whilst remaining in any non-active states.

Courses in the DCS can be *Active*, *Archived* or *Deleted*, and can be done at the HEIs' discretion. Only active courses are shown in the *GetCourse* s method, and therefore an archive action or deletion will remove it from the API output. In addition to this, if the *GetCourseContent* method is called with an archived course as the parameter, then the call will return a success status code, but the response will not contain any content data, as the change in course state causes the content states to change.

Content items in the DCS may be in one of the following states:

- Active
- Archived
- Deleted
- Pending

HEIs are responsible for managing the changes of state. All states except *Deleted* will be returned in the *GetCourseContent* call, as long as they have been made public by the institution at some point. This is to say, if a piece of content is moved from active to archived or pending and vice versa, then this change will be seen in the content status field. However, a change from active, archived or pending to deleted will mean that the content is not shown in the response. Links to content are only provided for content items in the the active state.

## Starting a new academic year

See *Appendix 2 for content status definitions*.

See *Appendix 3 for a chart explaining the timeline of events*.

When an institution wants to move into the next academic year, their courses will also all be carried over, and this will be shown by the academic-year field in the *GetCourses* call. This is typically performed between 1st June and 31st July. Since the choice of timing is in the HEIs' control, it is their responsibility to inform any external technology providers, if required. Since the *GetCourses* call can only be used to get the courses in the current academic year, once an institution has started the next academic year, courses in the previous academic year will no longer be able to be queried via the API.

In the first week of August, CLA will recheck all the items used under the CLA licence to verify that course content is covered in the following academic year under the CLA licence or permissions need to be sourced elsewhere. This may cause course content to go from active to pending if the permissions change. Librarians and academic support staff will be able to source alternative permissions or content at this time, triggering changes in content status and availability of content.

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## Technical Specification

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### Introduction

### Authentication

The DCS API uses a standard “basic” authentication scheme. All calls to the API need to include an HTTP header with appropriate credentials. The authorization field consists of a username and a password combined with a single colon encoded in base64 prepended by the word “Basic”. The HTTP request’s *Authorization* header should then be set with the resulting string.

The process to create a proper authentication header is as follows:

1. Define a string in the following format: “username:password” (ignore quotes).
2. Convert this string into a base64-encoded string.
3. Prefix the word “Basic” (again, ignore quotes) to the base64-encoded string, separated by a space.
4. Set the HTTP request’s authorization header with the final string.

For example, if the caller has the username “Foo” and the password “Bar” the resulting header would look like:

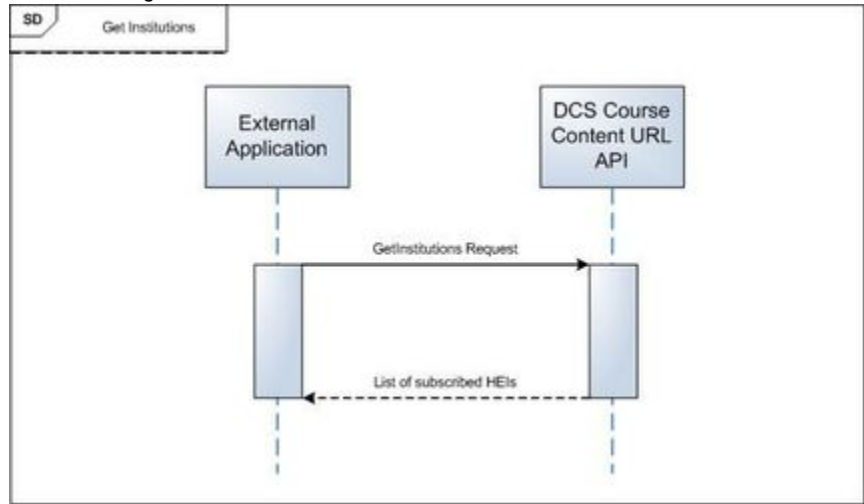
```
authorization: Basic Rm9vOkJhcG==
```

In order to ensure the security of this scheme, all calls will be over SSL using a recognized security certificate, thus resulting in only encrypted data sent to and from the DCS Course Content URL API. More information on basic authentication can be found here (RFC2617): <https://tools.ietf.org/html/rfc2617#section-2>

## Workflow and sequence diagrams

### Get all institution IDs

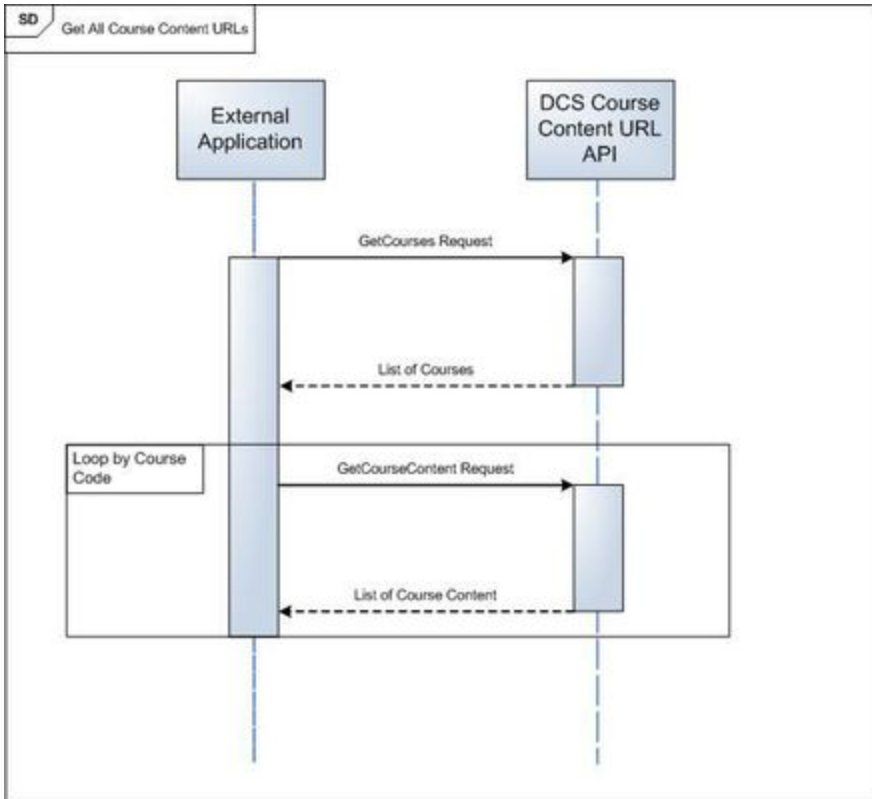
This sequence will retrieve the IDs that are associated with the HEIs that have allowed subscriptions. This can be used to confirm that an institution has granted access.



### Get all course and content updates for a particular institution

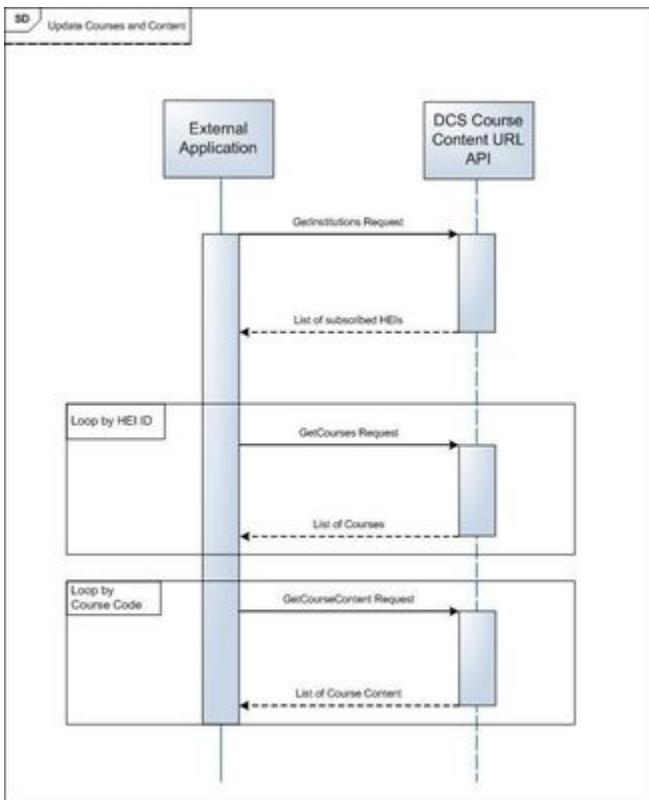
For a specified institution obtain the list of courses and the course content. Also used to check for new courses, updates to courses and updates to content.

This sequence can be used to update a specific institution courses and content items.



### Get all course and content updates for all institutions

This sequence can be used to provide the full set of data so the client system can be completely updated to match the current status of the Digital Content Store. This is to be used at times when all institutions need to be updated, such as after CLA annual permissions recheck.



## Get Institutions

Get Institutions																									
URL	/GetInstitutions																								
Method	GET																								
URL Parameters	None																								
Authentication	Required																								
Success Response	<table border="1"><thead><tr><th>Field</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>status</td><td>string</td><td>The status of the API response ("ok", "error")</td></tr><tr><td>status-code</td><td>int</td><td>Status-code of the API response</td></tr><tr><td>status-message</td><td>string</td><td>Message related to the API status code (if applicable)</td></tr><tr><td>total-results</td><td>int</td><td>Number of Institutions returned</td></tr><tr><td>Institutions</td><td>object[]</td><td>List of institutions associated to the API user</td></tr><tr><td>id</td><td>int</td><td>Institution ID</td></tr><tr><td>name</td><td>string</td><td>Institution Name</td></tr></tbody></table> <pre>{   "status": "string",   "status-code": 0,   "status-message": "string",   "total-results": 0,   "institutions": {     "id": 0,     "name": "string"   } }</pre>	Field	Type	Description	status	string	The status of the API response ("ok", "error")	status-code	int	Status-code of the API response	status-message	string	Message related to the API status code (if applicable)	total-results	int	Number of Institutions returned	Institutions	object[]	List of institutions associated to the API user	id	int	Institution ID	name	string	Institution Name
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Institutions	object[]	List of institutions associated to the API user																							
id	int	Institution ID																							
name	string	Institution Name																							
Error Response	<pre>{   "status": "error",   "status-code": 3,   "status-message": "Could not authenticate user" }</pre>																								

Sample Call	<p>GET https://{host}/GetInstitutions HTTP/1.1</p> <p>authorization: Basic YourBase64encodedusername:password</p>
Sample Response	<div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"><b>GetInstitutions Response</b></div> <pre style="font-family: monospace; font-size: 1.2em;"> {   'institutions':   [     {'id': 209, 'name': 'API_TEST'},     {'id': 210, 'name': 'API_TEST_OTHER'}   ],   'status': 'ok',   'status-code': 100,   'status-message': 'Success',   'total-results': 2 } </pre> </div>

## Get Courses

Get Courses	
URL	/GetCourses?hei={hei}
Method	GET
URL Parameters	<p><b>Required:</b></p> <p>hei=[integer]</p>
Authentication	Required



Success Response

Field	Type	Description
status	string	The status of the API response ("ok", "error")
status-code	int	Status-code of the API response
status-message	string	Message related to the API status code (if applicable)
total-results	int	Number of Institutions returned
courses	object[]	List of institutions associated to the API user
academic year	string	Academic year the course is currently in
id	int	Id of the current course
course-code	string	The course code of the current course
name	string	Name of the course
duration	int	Duration of the course in weeks
lecturer	string	The lead lecturer assigned to the course

```
{
  "status": "string",
  "status-code": 0,
  "status-message": "string",
  "total-results": 0,
  "courses": {
    "academic-year": 0,
    "id": 0,
    "course-code": "string",
    "name": "string",
    "duration": 0,
    "lecturer": "string"
  }
}
```

Error Response

```
{  
  "status": "error",  
  "status-code": 1,  
  "status-message": "Institution not found"  
}
```

```
{  
  "status": "error",  
  "status-code": 5,  
  "status-message": "User not subscribed to HEI"  
}
```

```
{  
  "status": "error",  
  "status-code": 6,  
  "status-message": "Invalid Parameter"  
}
```

Sample Call

```
GET https://{host}/GetCourses?hei=206 HTTP/1.1  
authorization: Basic YourBase64encodedusername:password
```

Sample Response

**GetCourses Response**

```
{
  'courses':
  [
    {
      'academic-year': '2016-2017',
      'course-code': 'HIST101',
      'duration': 52,
      'id': 70668,
      'lecturer': 'Jane Bunt',
      'name': 'Introduction to World History'
    },
    {
      'academic-year': '2016-2017',
      'course-code': 'ENG101',
      'duration': 26,
      'id': 70918,
      'lecturer': 'Steve McGill',
      'name': 'Introduction to English Language'
    },
    {
      'academic-year': '2016-2017',
      'course-code': 'LIT500',
      'duration': 52,
      'id': 70919,
      'lecturer': '',
      'name': 'English literature and the works of
Shakespear'
    }
  ],
  'status': 'ok',
  'status-code': 100,
  'status-message': 'Success',
  'total-results': 3
}
```

**Get Course Content**

**Get Course Content**

URL	/GetCourseContent?hei={hei}&code={code}																																																																							
Method	GET																																																																							
URL Parameters	<b>Required:</b> hei=[integer] code =[string]																																																																							
Authentication	Required																																																																							
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issue	string	The content's issue number																																																																						
page-range	string	The page range extracted from the content																																																																						

author	string	The author of the content
colour-scale	string	The content's colour scale. Possible outputs: <ul style="list-style-type: none"><li>• BlackAndWhite</li><li>• Greyscale</li><li>• Colour</li></ul>
publisher	string	The content's publisher
extract-author	string	The content's extract author
chapter-number	string	The content's chapter number
edition	string	The content's edition
book-pages	int	The content's book page count
publication-place	string	The content's publication place
OCR	bool	Does the content have optical character recognition?
file-size	double	The content's file size in KB

```
{
  "status": "string",
  "status-code": 0,
  "status-message": "string",
  "total-results": 0,
  "HEI": "string",
  "course-ID": 0,
  "content-items": {
    "content-GUID": "string",
    "content-status": "string",
    "last-modified": "2016-10-14T11:53:49.136Z",
    "content-URL": "string",
    "bibliographic-details": {
      "type": "string",
      "identifier": "string",
      "DOI": "string",
      "title": "string",
      "extract-title": "string",
      "publication-form": "string",
      "year": "string",
      "volume": "string",
      "issue": "string",
      "page-range": "string",
      "author": "string",
      "colour-scale": "string",
      "publisher": "string",
      "extract-author": "string",
      "chapter-number": "string",
      "edition": "string",
      "book-pages": 0,
      "publication-place": "string",
      "OCR": true,
      "file-size": 0
    }
  }
}
```

Error Response

```
{
  "status": "error",
  "status-code": 1,
  "status-message": "Institution not found"
}
```

```
{
  "status": "error",
  "status-code": 2,
  "status-message": "Course not found"
}
```

```
{
  "status": "error",
  "status-code": 6,
  "status-message": "Invalid Parameter"
}
```

Sample Call

GET https://{host}/GetCourseContent?hei=209&code=ENG101 HTTP/1.1  
authorization: Basic YourBase64encodedusername:password

Sample Response

**GetCourseContent Response**

```
{
  'content-items':
  [{
    'bibliographic-details':
    {
      'DOI': None,
      'OCR': False,
      'author': 'ed. by Michael Lewis; Jeannette M. Haviland',
      'book-pages': None,
      'chapter-number': None,
      'colour-scale': 'BlackAndWhite',
      'edition': None,
    }
  ]
}
```

```
        'extract-title': None,
        'extractAuthor': None,
        'file-size': 10.85,
        'identifier': '9780898629880',
        'issue': None,
        'page-range': '19-25',
        'publication-form': 'Print',
        'publication-place': None,
        'publisher': 'Guilford Press',
        'title': 'Handbook of emotions',
        'type': 'Book',
        'volume': None,
        'year': '1993'
    },
    'content-GUID': '29a3d5c9-2c8a-e611-80bd-002590aca7cd',
    'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=29a3d5c9-2c8a-e611-80bd-
    'content-status': 'Active',
    'last-modified': '04/Oct/2016 12:19'
},
{
    'bibliographic-details':
    {
        'DOI': None,
        'OCR': False,
        'author': 'John Wiley and Sons',
        'book-pages': None,
        'chapter-number': None,
        'colour-scale': 'Greyscale',
        'edition': None,
        'extract-title': None,
        'extractAuthor': None,
        'file-size': 10.85,
        'identifier': '9780335156757',
        'issue': None,
        'page-range': '12-15',
        'publication-form': 'Digital',
        'publication-place': None,
        'publisher': 'Open University Press',
        'title': 'Plain English',
        'type': 'Book',
        'volume': None,
        'year': '1992'
    },
    'content-GUID': '9586b244-2d8a-e611-80bd-002590aca7cd',
    'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=9586b244-2d8a-e611-80bd-
    'content-status': 'Active',
    'last-modified': '04/Oct/2016 12:22'
},
```



```
'content-GUID': '9978936e-2e8a-e611-80bd-002590aca7cd',
'content-URL': None,
'content-status': 'Archived',
'last-modified': '04/Oct/2016 12:31'
},
{
  'bibliographic-details':
  {
    'DOI': None,
    'OCR': False,
    'author': 'Dabydeen, David',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'BlackAndWhite',
    'edition': None,
    'extract-title': None,
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '9780719010965',
    'issue': None,
    'page-range': '25-42',
    'publication-form': 'Print',
    'publication-place': None,
    'publisher': 'Manchester University Press',
    'title': 'The Black Presence in English Literature.',
    'type': 'Book',
    'volume': None,
    'year': '1985'
  },
  'content-GUID': '75f4d288-2f8a-e611-80bd-002590aca7cd',
  'content-URL': None,
  'content-status': 'Pending',
  'last-modified': '04/Oct/2016 12:39'
}],
'course-ID': 70918,
'hei': 'API_TEST',
'status': 'ok',
'status-code': 100,
'status-message': 'Success',
```

```
}
  'total-results': 2
}
```

---

## Examples

### Demo Environment

The DCS demo environment can be accessed here can be signed up to on the CLA API portal, and using the API [here](#).

The following institutions and courses have been set up on the demo environment in order to demonstrate the possible return values of calls

### Institutions

#### Example Response: Institutions

```
'institutions':
  [
    {'id': 209, 'name': 'API_TEST'},
    {'id': 210, 'name': 'API_TEST_OTHER'}
  ]
```

### Courses

The API\_TEST University will have the following courses

### Example Response: Courses

```
'courses':
[
  {
    'academic-year': '2016-2017',
    'course-code': 'HIST101',
    'duration': 52,
    'id': 70668,
    'lecturer': 'Jane Bunt',
    'name': 'Introduction to World History'
  },
  {
    'academic-year': '2016-2017',
    'course-code': 'ENG101',
    'duration': 26,
    'id': 70918,
    'lecturer': 'Steve McGill',
    'name': 'Introduction to English Language'
  },
  {
    'academic-year': '2016-2017',
    'course-code': 'LIT500',
    'duration': 52,
    'id': 70919,
    'lecturer': '',
    'name': 'English literature and the works of Shakespear'
  }
]
```

### Course Content

The course with code ENG101 under API\_TEST University will retrieve the following items

### Example Response: Course Content

```
'content-items':
[
  {
    'bibliographic-details':
    {
      'DOI': None,
```

```
'OCR': False,
'author': 'ed. by Michael Lewis; Jeannette M. Haviland.',
'book-pages': None,
'chapter-number': None,
'colour-scale': 'BlackAndWhite',
'edition': None,
'extract-title': None,
'extractAuthor': None,
'file-size': 10.85,
'identifier': '9780898629880',
'issue': None,
'page-range': '19-25',
'publication-form': 'Print',
'publication-place': None,
'publisher': 'Guilford Press',
'title': 'Handbook of emotions',
'type': 'Book',
'volume': None,
'year': '1993'
},
'content-GUID': '29a3d5c9-2c8a-e611-80bd-002590aca7cd',
'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=29a3d5c9-2c8a-e611-80bd-00259
0aca7cd',
'content-status': 'Active',
'last-modified': '04/Oct/2016 12:19'
},
{
  'bibliographic-details':
  {
    'DOI': None,
    'OCR': False,
    'author': 'John Wiley and Sons',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'Greyscale',
    'edition': None,
    'extract-title': None,
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '9780335156757',
    'issue': None,
    'page-range': '12-15',
    'publication-form': 'Digital',
    'publication-place': None,
    'publisher': 'Open University Press',
    'title': 'Plain English',
    'type': 'Book',
    'volume': None,
    'year': '1992'
```

```
    },
    'content-GUID': '9586b244-2d8a-e611-80bd-002590aca7cd',
    'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=9586b244-2d8a-e611-80bd-00259
0aca7cd',
    'content-status': 'Active',
    'last-modified': '04/Oct/2016 12:22'
  },
  {
    'bibliographic-details':
  {
    'DOI': None,
    'OCR': True,
    'author': 'Crystal, David',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'Colour',
    'edition': None,
    'extract-title': None,
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '9780521530330',
    'issue': None,
    'page-range': '85-98',
    'publication-form': 'Digital',
    'publication-place': None,
    'publisher': 'Cambridge University Press',
    'title': 'The Cambridge encyclopedia of the English
language',
    'type': 'Book',
    'volume': None,
    'year': '2003'
  },
    'content-GUID': '622a7762-2d8a-e611-80bd-002590aca7cd',
    'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=622a7762-2d8a-e611-80bd-00259
0aca7cd',
    'content-status': 'Active',
    'last-modified': '04/Oct/2016 12:23'
  },
  {
    'bibliographic-details':
  {
    'DOI': '10.1080/14790720902910379',
    'OCR': False,
    'author': None,
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'BlackAndWhite',
    'edition': None,
```

```
    'extract-title': 'Creative Writing and Storytelling',
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '14790726',
    'issue': '1',
    'page-range': '1-4',
    'publication-form': 'Print',
    'publication-place': None,
    'publisher': 'Informa UK Limited',
    'title': 'New Writing',
    'type': 'Journal',
    'volume': '6',
    'year': '2009'
  },
  'content-GUID': '34f83084-2e8a-e611-80bd-002590aca7cd',
  'content-URL':
'https://demo-dcs.cla.co.uk/secure/link?id=34f83084-2e8a-e611-80bd-00259
0aca7cd',
  'content-status': 'Active',
  'last-modified': '04/Oct/2016 12:31'
},
{
  'bibliographic-details':
  {
    'DOI': None,
    'OCR': False,
    'author': 'Bate, Jonathan.',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'BlackAndWhite',
    'edition': None,
    'extract-title': None,
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '9780714128245',
    'issue': None,
    'page-range': '67-95',
    'publication-form': 'Print',
    'publication-place': None,
    'publisher': 'British Museum Press',
    'title': 'Shakespeare: staging the world',
    'type': 'Book',
    'volume': None,
    'year': '2012'
  },
  'content-GUID': '5a1f3d28-2d8a-e611-80bd-002590aca7cd',
  'content-URL': None,
  'content-status': 'Archived',
  'last-modified': '04/Oct/2016 12:22'
},
```

```
{
  'bibliographic-details':
  {
    'DOI': '10.2307/776953',
    'OCR': False,
    'author': 'Dean McNeil',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'BlackAndWhite',
    'edition': None,
    'extract-title': 'Selected Short Stories',
    'extractAuthor': 'Dean McNeil',
    'file-size': 10.85,
    'identifier': '00043249',
    'issue': '3',
    'page-range': '258',
    'publication-form': 'Digital',
    'publication-place': None,
    'publisher': 'JSTOR',
    'title': 'Art Journal',
    'type': 'Journal',
    'volume': '48',
    'year': '1989'
  },
  'content-GUID': '9978936e-2e8a-e611-80bd-002590aca7cd',
  'content-URL': None,
  'content-status': 'Archived',
  'last-modified': '04/Oct/2016 12:31'
},
{
  'bibliographic-details':
  {
    'DOI': None,
    'OCR': False,
    'author': 'Dabydeen, David',
    'book-pages': None,
    'chapter-number': None,
    'colour-scale': 'BlackAndWhite',
    'edition': None,
    'extract-title': None,
    'extractAuthor': None,
    'file-size': 10.85,
    'identifier': '9780719010965',
    'issue': None,
    'page-range': '25-42',
    'publication-form': 'Print',
    'publication-place': None,
    'publisher': 'Manchester University Press',
    'title': 'The Black Presence in English Literature.',
    'type': 'Book',
```

```
        'volume': None,  
        'year': '1985'  
    },  
    'content-GUID': '75f4d288-2f8a-e611-80bd-002590aca7cd',  
    'content-URL': None,  
    'content-status': 'Pending',  
    'last-modified': '04/Oct/2016 12:39'  
}1
```





## Appendix

### Appendix 1 - Error Message

#### Response fields

Field	Type	Description
status	string	The status of the API response ("ok", "error")
status-code	int	Status-code of the API response
status-message	string	Message related to the API status code

#### Status Codes

Code	Description
1	Institution not found
2	Course not found
3	Could not authenticate user
4	Internal server error
5	User not subscribed to HEI
6	Invalid Parameter
100	Success

### Appendix 2 - Content Statuses

Status	Description	Available in GetCourseContent call?	Content can be accessed through links by students?
Active	This means the content has been published and is usable by students	Yes	Yes
Pending	Pending content is being prepared by librarians in order to become active	Yes	No
Archived	Archived content is temporarily put into this state so that it can be used at another time without being setup again	Yes	No
Deleted	Deletion occurs when content is not going to be used in the foreseeable future	No	No

### Appendix 3 - Academic Year Timeline

#### Key dates

- 1st August - new licence year starts and the academic year starts, if not already initiated by the HEI
- May to July - course content rolled over into next academic year. This process will be completed by the end of July in most cases
- Beginning of August - CLA Permissions re-check