Bioschemas begins in Birmingham, UK. Created specs drafts for:
- Event
- Material
- Organization
- Profile
- Standards

TeSS begins automatically aggregating GOBLET resources through schema.org annotations

April 2016

GOBLET maps Materials to TrainingMaterial schema

May 2016

March 2017

Presented Bioschemas to GOBLET Standards Committee

May 2016

March 2017

TeSS begins automatically aggregating GOBLET resources through schema.org annotations

Feb 2017

Course and Course Instance draft specs live on Bioschemas website

Sept 2018

Nov 2017

GOBLET AGM 2017, Lisbon Began Course and CourseInstance Schema

Nov 2017

June 2015

June 2016

June 2017

June 2018

June 2019

Bioschemas Pilot Phase

Bioschemas Implementation Study

July 2017

March 2017

9 Bioschemas adopters in TeSS

March 2017

Implementation study planning; focusing on developing new biological types (more scientific) and constructing tools

Sept 2018

Nov 2018

GOBLET AGM 2018 Toronto Finalize Course/CourseInstance

Nov 2018

Bioschemas Implementation Study beings. Focused on:
- Disseminate & Train
- Adopt
- Sustain
- Impact

July 2017

Go to http://bioschemas.org/devSpecs/Course/ http://bioschemas.org/devSpecs/CourseInstance
Bioschemas Implementation Study

June 2018

- Biohackathon in Paris.
- Review our completed specs with LRMI & Bioschemas.
- If all’s well; release course and course instance

Nov 2018

- GOBLET AGM 2018 Toronto
- Finalize Course/CourseInstance

Feb 2019

- Bioschemas to publish in Special issue on FAIR data in Nature Scientific Data.

June 2019

- Encourage adoption

Ongoing
Todays Work

- An introduction to Course and Course Instance schemas
- Review our current specifications
- Plan publications

Niall only

Code Up spec and upload to Bioschemas!
This mission of this group, initiated by LRMI, is to **develop an extension for schema.org** concerning the **discovery of any type of educational course** (online/offline, long/short, scheduled/on-demand). Educational course is defined as "some sequence of events and/or creative works which aims to build the knowledge, competence or ability of learners".

From the LRMI W3C group [https://www.w3.org/community/schema-course-extend/](https://www.w3.org/community/schema-course-extend/)
LRMI - Course & Course Instance

• (Out of scope: information about students and their progression etc; information needed internally for course management rather than discovery).

From the LRMI W3C group https://www.w3.org/community/schema-course-extend/
Course/Course Instance Structure

- **Course**
  - Description
  - Course Code
  - hasCourseInstance
  - hasCourseInstance

- **CourseInstance**
  - courseMode
  - startDate
  - endDate
  - Location

- **PostalAddress**
  - postalCode
  - streetAddress
  - addressCountry

For more examples, see: https://www.w3.org/community/schema-course-extend/wiki/Modelling_Course_and_CourseInstance
Course/Course Instance Structure with Example Data

Course
Description
This course is designed for those wishing to take up a career in Accounting and Financial Administration within a range of organisations.

CourseCode
FI6.0.1

hasCourseInstance

CourseInstance

courseMode
Full Time

startDate
2018-11-09

endDate
2018-11-19

Location
St Bryceldale Campus Kirkcaldy

hasCourseInstance

CourseInstance

courseMode
Evenings only and Weekends

startDate
2019-01-09

endDate
2019-01-15

Location

PostalAddress

postalCode
M13 9PL

streetAddress
14 Oxford Road

addressCountry
United Kingdom

[...]

CourseInstance

courseMode
Full Time
"type": "Course",
"description": "This course is designed for those wishing to take up a career in Accounting and Financial Administration within a range of organisations....",
"courseCode": "FI6.0.1",
"hasCourseInstance": [
  {
    "@type": "CourseInstance",
    "courseMode": "Full Time",
    "startDate": "2018-11-09",
    "endDate": "2018-11-19",
    "location": "St Bryceldale Campus Kirkcaldy"
  },
  {
    "courseMode": "Evenings only and Weekends",
    "startDate": "2019-01-09",
    "endDate": "2019-01-15",
    "location": {
      "postalCode": "M13 9PL",
      "streetAddress": "14 Oxford Road",
      "addressCountry": "United Kingdom"
    }
  }
]

For more examples, see: https://www.w3.org/community/schema-course-extend/wiki/Modelling_Course_and_CourseInstance
Course Review!

- https://docs.google.com/spreadsheets/d/1HsFbd2AavGyCQWSWItZ4l1oohngZFOExFhBZ_Tdl-yQ/edit#gid=1261485211

Course Instance Review!

- https://docs.google.com/spreadsheets/d/1v6KJWKVswnuhaFUcs9KyQjbNExHTzB4_BW2derRzKsM/edit#gid=1261485211
Review Process

Go through each attribute. And agree on answers for each of these questions:

- Do we definitely want to keep it?
- Should it be Minimum / Optional / Recommended?
- Should there be one or many of them?
- Should values be restricted to a controlled vocab?

For instructions please see: https://github.com/W3C/SDS

<table>
<thead>
<tr>
<th>Property</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>courseMode</td>
<td>Text</td>
<td>The medium of the course</td>
</tr>
<tr>
<td>instructor</td>
<td>Person</td>
<td>A person associated with the course</td>
</tr>
<tr>
<td>property</td>
<td>Type URL</td>
<td>The URI of the property, if available</td>
</tr>
<tr>
<td>recommended</td>
<td>Boolean</td>
<td>A boolean indicating whether the property is recommended</td>
</tr>
<tr>
<td>sourceUrl</td>
<td>URL</td>
<td>The URL of the source of the property</td>
</tr>
<tr>
<td>time</td>
<td>DateTime</td>
<td>The time at which the property is valid</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The type of the property</td>
</tr>
</tbody>
</table>

---

For a detailed review of each attribute, see the table below:

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