

# **GA Ed-Fi Suite v3.6.2, Data Standard v4.0: Sections**

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# GA Ed-Fi Suite v3.6.2, Data Standard v4.0: Sections

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## Summary

This educational entity represents a setting in which organized instruction of course content is provided to one or more students for a given period of time. A course may be offered to more than one class/section. Instruction, provided by one or more teachers or other staff members, may be delivered in person or via a different medium.

## Object Triggering Logic

Action	Business Rule(s)
Post	<p>When a section is created <b>OR</b> When a Section Student Detail record is created with a Course State Code Override that is different than the associated course's State Code.</p> <ul style="list-style-type: none"> <li>• Do not report a record if the any of the following exclusions are present: <ul style="list-style-type: none"> <li>◦ Course is inactive (Active is unchecked)</li> <li>◦ Course State Exclude</li> <li>◦ Course State Code is NULL</li> <li>◦ Calendar Exclude</li> <li>◦ School Exclude</li> </ul> </li> <li>• The section must be scheduled into a term/period (Section Placement) to report.</li> <li>• A record will be posted for each unique term the section is scheduled in.</li> <li>• Section records will exist for <b>BOTH</b> the original and override state codes (if entered).</li> </ul>

Delete /Post  Put	<p>A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.</p> <ul style="list-style-type: none"> <li>• When the following information is changed on the Course: <ul style="list-style-type: none"> <li>◦ State Code</li> <li>◦ Online Learning</li> <li>◦ Alt School Code</li> <li>◦ Alt System Code</li> <li>◦ Active</li> <li>◦ State Exclude</li> <li>◦ Grading Task Credits</li> </ul> </li> <li>• When the following information is changed on the Section: <ul style="list-style-type: none"> <li>◦ Section ID (New Section)</li> <li>◦ Section Placement (Terms Offered)</li> <li>◦ Online Learning (Override)</li> <li>◦ Immersion Language</li> <li>◦ Alt School Code</li> <li>◦ Alt System Code</li> </ul> </li> <li>• When the following information is changed on Section Student Detail: <ul style="list-style-type: none"> <li>◦ Course State Code Override</li> </ul> </li> <li>• When the following information is changed on Staff History: <ul style="list-style-type: none"> <li>◦ Staff History ID (New Staff History)</li> <li>◦ Role</li> </ul> </li> </ul>
Delete	<ul style="list-style-type: none"> <li>• When the terms the section is offered in are changed or removed.</li> <li>• When the section is deleted.</li> <li>• When the Section Student Detail record that has a Course State Code Override is deleted.</li> <li>• When the Course State Code Override on a Section Student Detail record is changed or removed.</li> </ul>

### Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Course Offerings
- Locations
- Class Periods

### Dependent Resources (Downstream)

The following resources are dependent on this resource (must be sent after this resource):

- Staff Section Associations
- Student Section Associations

### Error Log

The following are potential Tier 1 (Ed-Fi API generated) or custom (Campus generated) errors you may receive when posting, updating, or deleting this resource. Please keep in mind that the "Error Message" below may not match your exact error message.

Error Message	Possible Causes / How to Fix
400: Validation of ' <b>RESOURCE</b> ' failed. <b>FIELD</b> is required.	An element of the JSON that is required is missing and needs to be added. <ul style="list-style-type: none"><li>• Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.</li></ul>
400: ' <b>RESOURCE</b> ' failed. <b>RESOURCE</b> reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. <ul style="list-style-type: none"><li>• Resync the resource being mentioned in the error, then resync the errored resource. Alternatively, the resource being referenced may be incorrect. This can happen with Schools and the Ed-Fi School ID being used as an example. Double check the referenced values being sent are valid.</li></ul>

<p>403: Authorization denied. The claim does not have any established relationships with the requested resource.</p>	<p>The key/secret being used does not have permission to send a record for the resource / referenced resource.</p> <ul style="list-style-type: none"> <li>• Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources.</li> <li>• The referenced person (student, staff, parent, contact, etc.) has not yet been associated to the key /secret. Resync their "linking" resource (Students Student School Associations, Staffs Staff Education Organization Assignment Associations, etc.) then resync the errored resource.</li> <li>• The referenced person (student, staff, parent, contact, etc.) may not exist in the ODS yet. Resync the "person" resource and the "linking" resource (Students Student School Associations, Staffs Staff Education Organization Assignment Associations, etc.) then resync the errored resource.</li> </ul>
<p>404: Failed to delete '<b>RESOURCE</b>'. Record does not exist.</p>	<p>The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist.</p> <ul style="list-style-type: none"> <li>• This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.</li> </ul>
<p>409: A natural key conflict occurred when attempting to create a new resource '<b>RESOURCE</b>' with a duplicate key.</p>	<p>The Ed-Fi API has a natural key system alongside a standard REST ID system. This error is often protecting against the erroneous creation of a duplicate record in the API. However, it may also indicate that the natural key requirements of the Ed-Fi API have not been satisfied, and the key needs to be modified.</p> <ul style="list-style-type: none"> <li>• Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support. <ul style="list-style-type: none"> <li>◦ This can be caused by numerous issues. Our code may be attempting to send duplicate records when it should not. The natural key (bolded fields below) may not be unique enough to satisfy Ed-Fi requirements in all cases. Most times this error will require a code change to fix.</li> </ul> </li> </ul>
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '<b>RESOURCE</b>' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> <li>• Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.</li> </ul>

500: Internal Server Error.	<p>Something unexpected happened and no specific error message could be returned.</p> <ul style="list-style-type: none"><li>• This issue usually occurs when the ODS is having issues. Confirm that there are no issues with the ODS the data is being sent to and then attempt to retry the errored record.</li><li>• Contact Campus Support if 500 errors continue to occur, can be replicated consistently, and the ODS the data is being sent to has no ongoing issues.<ul style="list-style-type: none"><li>◦ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.</li><li>◦ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.</li><li>◦ Investigation is needed in these cases as there are many different potential causes.</li></ul></li></ul>
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## Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

- The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
1	<b>sectionIdentifier</b> ( <i>string</i> )	<i>The local identifier assigned to a section.</i> <hr/> Reports the <b>Section ID</b> .	M	Section	Section.sectionID	✓
2	<b>courseOfferingReference</b> ( <i>reference</i> )	<i>A reference to the Course Offerings resource associated with the Section being reported.</i> <hr/> Reports the fields that are part of the Natural Key for the Course Offerings resource.	M	N/A	N/A	✓
3	availableCredits ( <i>number</i> )	<i>The value of credits or units of value awarded for the completion of a course.</i> <hr/> Report the result of the following calculation: <ul style="list-style-type: none"> <li>Total Credits (from all Grading Tasks on the Course) / Number of Terms the Section occurs.</li> </ul>	C	Course Master	GradingTaskCredit.credit	✓

4	characteristics	<p><i>An unordered collection of sectionCharacteristics. Reflects important characteristics of the section, such as whether or not attendance is taken and the section is graded.</i></p> <hr/> <p>Reports the below data elements in an array:</p> <ul style="list-style-type: none"> <li>sectionCharacteristicDescriptor <ul style="list-style-type: none"> <li>Reports <b>Y</b> if: <ul style="list-style-type: none"> <li>Section <i>Online Learning (Override)</i> is set to "Y: Yes" <b>OR</b></li> <li>Course <i>Online Learning</i> is set to "Y: Yes" <b>OR</b></li> <li>Course <i>State Code</i> has a "3" after the decimal. <ul style="list-style-type: none"> <li>Example 10.3230000</li> </ul> </li> </ul> </li> <li>Reports <b>N</b> in all other situations.</li> </ul> </li> </ul>	M	Course Section	Course. distanceCode  Section. distanceCode	✗
5	classPeriods (array)	<p><i>A reference to the Class Periods resource associated with the Section being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Class Periods resource for all class periods the section is offered in.</p>	M	N/A	N/A	✓
6	instructionLanguageDescriptor (string)	<p><i>The primary language of instruction. If omitted, English is assumed.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for <b>Immersion Language</b>.</p> <ul style="list-style-type: none"> <li>If NULL, do not report.</li> </ul>	M	Section	Section. immersionLanguage	✗

7	sectionName (string)	<p><i>A locally-defined name for the section, generally created to make the section more recognizable in informal contexts and generally distinct from the section identifier.</i></p> <hr/> <p>Report the <b>Section Number</b></p> <ul style="list-style-type: none"> <li>• If the Section Number is less than 3 digits, 0-pad it from the left to make it 3 digits long.</li> <li>• If the Section Number is more than 3 digits, report the last 3 digits.</li> </ul>	M	Section	Section.number	
8	alternateEducationOrganizationId (number)	<p><i>Indicates Concurrent enrollment system</i></p> <hr/> <p>Report if both <b>Alt School Code</b> and <b>Alt System Code</b> are populated on the Section.</p> <ul style="list-style-type: none"> <li>• If Section is empty, report if both Alt School Code and Alt System Code are populated on Course.</li> <li>• Else, do not report.</li> </ul>	C	Course Section	<p>Course. altStateCode Course.specialCode</p> <p>Section. altSchoolCode Section. altSystemCode</p>	EXT

9	classPeriodNumber (string)	<p><i>Indicates Class period Number</i></p> <hr/> <p>Reports the lowest <b>Sequence</b> of the class periods the section is scheduled into.</p> <ul style="list-style-type: none"> <li>• Example: If the section is scheduled into a class period with the sequence of "5" and "6", it will report "05".</li> <li>• The format for this data element will always be ##. <ul style="list-style-type: none"> <li>◦ If the Sequence is "3" in Campus, it should send as "03".</li> </ul> </li> </ul>	M	Section	SectionPlacement. periodID	EXT
10	locationReference	This is optional, does not report.	O	N/A	N/A	N/A
11	locationSchoolReference	This is optional, does not report.	O	N/A	N/A	N/A
12	availableCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
13	availableCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
14	characteristics	This is optional, does not report.	O	N/A	N/A	N/A
15	courseLevelCharacteristics	This is optional, does not report.	O	N/A	N/A	N/A
16	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
17	mediumOfInstructionDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
18	offeredGradeLevels	This is optional, does not report.	O	N/A	N/A	N/A
19	officialAttendancePeriod	This is optional, does not report.	O	N/A	N/A	N/A
20	populationServedDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
21	programs	This is optional, does not report.	O	N/A	N/A	N/A
22	sequenceOfCourse	This is optional, does not report.	O	N/A	N/A	N/A

23	description	This is optional, does not report.	O	N/A	N/A	N/A
24	levelDetail	This is optional, does not report.	O	N/A	N/A	N/A
25	markingPeriods	This is optional, does not report.	O	N/A	N/A	N/A
26	subjectAreas	This is optional, does not report.	O	N/A	N/A	N/A

## Appendix