

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

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

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## Summary

This entity is the final record of a student's performance in their courses at the end of a semester or school year.

## Object Triggering Logic

Action	Business Rule(s)
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Post	<p>Report a record when transcript records are posted for a student in the current configuration year.</p> <ul style="list-style-type: none"><li>• Do not send a record if any of the following exclusions are present:<ul style="list-style-type: none"><li>◦ Course is marked as inactive</li><li>◦ Transcript's score is NULL</li><li>◦ School Exclude is checked</li><li>◦ Calendar Exclude is checked</li><li>◦ Student's Enrollment is State Exclude</li><li>◦ Student's Enrollment is No Show</li></ul></li><li>• The transcript record can be posted through the Transcript Post tool or through a manual entry.</li><li>• For a manual transcript entry to post a record without error, all of the below fields must be populated on the transcript:<ul style="list-style-type: none"><li>◦ Score</li><li>◦ Attempted Credits</li><li>◦ Earned Credits</li><li>◦ School Year</li><li>◦ Course Name</li><li>◦ State Code</li><li>◦ Ed-Fi Term Type (or have a mapped override)</li></ul></li></ul>
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Delete /Post	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.
Put	<ul style="list-style-type: none"> <li>• When the following information is changed on a transcript entry: <ul style="list-style-type: none"> <li>◦ Transcript ID (New Transcript Entry)</li> <li>◦ Score</li> <li>◦ Attempted Credits</li> <li>◦ Earned Credits</li> <li>◦ School Year</li> <li>◦ Course Name</li> <li>◦ State Code</li> <li>◦ Ed-Fi Term Type</li> </ul> </li> <li>• When the following information is changed on an Enrollment: <ul style="list-style-type: none"> <li>◦ End Date</li> <li>◦ Grade</li> <li>◦ No Show</li> <li>◦ Start Date</li> <li>◦ State Exclude</li> </ul> </li> <li>• When the following information is changed on the Roster for the student: <ul style="list-style-type: none"> <li>◦ Start Date</li> <li>◦ End Date</li> </ul> </li> </ul>
Delete	<ul style="list-style-type: none"> <li>• When the transcript record is deleted.</li> <li>• When the student is somehow excluded now.</li> <li>• When the section is somehow excluded now. <ul style="list-style-type: none"> <li>◦ Only for non-high school courses logic.</li> </ul> </li> </ul>

### Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Courses (Pre-populated)
- Students
- Student School Associations
- Student Academic Records

### Dependent Resources (Downstream)

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

- N/A

### 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>courseAttemptResultDescriptor</b> ( <i>string</i> )	<p>The result from the student's attempt to take the course.</p> <hr/> <p>Report the Ed-Fi Code associated with the <b>State Score</b> that is mapped to the Score selected.</p> <ul style="list-style-type: none"> <li>If there is no State Score mapped to the Score selected, or the State Score does not have an Ed-Fi Code mapped to it, report the Ed-Fi Code mapped to the <b>calculation between Attempted Credits and Earned Credits</b>. <ul style="list-style-type: none"> <li>This is found in the Course Transcripts Resource Preferences page.</li> </ul> </li> </ul>	M	Score Groups & Rubrics  Transcript	<p><b>State Score:</b></p> <p>ScoreListItem. stateScore</p> <p><b>Calculation:</b></p> <p>TranscriptCredit. creditsEarned</p> <p>TranscriptCredit. creditsAttempted</p>	✗



2	<b>courseReference</b> (reference)	<p><i>A reference to the Courses resource associated with the Course Transcript being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Courses resource.</p>	M	N/A	N/A	✓
3	<b>studentAcademicRecordReference</b> (reference )	<p><i>A reference to the Student Academic Records resource associated with the Course Transcript being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Student Academic Records resource.</p>	M	N/A	N/A	✓

4	courseTitle (string)	<p><i>The descriptive name given to a course of study offered in a school or other institution or organization. In departmentalized classes at the elementary, secondary, and postsecondary levels (and for staff development activities), this refers to the name by which a course is identified (e.g., American History, English III). For elementary and other non-departmentalized classes, it refers to any portion of the instruction for which a grade or report is assigned (e.g., reading, composition, spelling, language arts).</i></p> <hr/> <p>Reports the <b>Course Name</b> on the transcript entry.</p>	C	Transcript	TranscriptCourse. courseName	✓
5	earnedCredits (number)	<p><i>The value of credits or units of value awarded for the completion of a course.</i></p> <hr/> <p>Reports the <b>Credits Earned</b>.</p>	M	Transcript	TranscriptCredit. creditsEarned	✓
6	finalLetterGradeEarned (string)	<p><i>The final indicator of student performance in a class as submitted by the instructor.</i></p> <hr/> <p>Reports the <b>Score</b> when it is an alpha character (not a number).</p>	C	Transcript	TranscriptCourse. score	✓

7	finalNumericGradeEarned (number)	<p><i>The final indicator of student performance in a class as submitted by the instructor.</i></p> <hr/> <p>Reports the <b>Score</b> when it is a number.</p>	C	Transcript	TranscriptCourse. score	✓
8	academicSubjects	This is optional, does not report.	O	N/A	N/A	N/A
9	alternativeCourseCode	This is optional, does not report.	O	N/A	N/A	N/A
10	alternativeCourseIdentificationCodes	This is optional, does not report.	O	N/A	N/A	N/A
11	alternativeCourseTitle	This is optional, does not report.	O	N/A	N/A	N/A
12	assigningOrganizationIdentificationCode	This is optional, does not report.	O	N/A	N/A	N/A
13	attemptedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
14	attemptedCredits	This is optional, does not report.	O	N/A	N/A	N/A
15	attemptedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
16	courseCatalogURL	This is optional, does not report.	O	N/A	N/A	N/A
17	courseRepeatCodeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
18	creditCategories	This is optional, does not report.	O	N/A	N/A	N/A
19	earnedAdditionalCredits	This is optional, does not report.	O	N/A	N/A	N/A
20	earnedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
21	earnedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
22	externalEducationOrganizationNameOfInstitution	This is optional, does not report.	O	N/A	N/A	N/A
23	externalEducationOrganizationReference	This is optional, does not report.	O	N/A	N/A	N/A

24	methodCreditEarnedDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
25	partialCourseTranscriptAwards	This is optional, does not report.	O	N/A	N/A	N/A
26	whenTakengradeLevelDescriptor	This is optional, does not report.	O	N/A	N/A	N/A

## Appendix