

NE Ed-Fi Suite v3.6.1, 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>When transcript records are posted for a student and they have a valid Student School Association for the configured year or when a resync is completed for the school the student is enrolled, all eligible transcript records for all years will send for the Student</p> <p>Do not send a record if the course is marked as inactive</p> <p>The course must exist in the ODS for the Course Reference to send as part of this resource. Use the following logic to determine which Course Reference to send:</p> <p>If the School Number and Course Number on the transcript record are in the configured year ODS, report the Course reference with those numbers</p> <p>If School Number and Course Number on the transcript record are in the ODS for the configured year but not the school where the student is enrolled, report the course reference with the School and Course Number that matches the School & Course in the ODS</p> <p>If School Number on the transcript record is in the ODS for the configured year but not the school where the student is enrolled but the Course number matches the school they are enrolled, the course reference will report with the School Number where the student is enrolled</p> <p>If the School Number on the transcript record is not in the ODS and the course number matches the school where the student is enrolled, the course reference will report where the student is enrolled</p> <p>If the School Number on the transcript is not in the ODS but the Course Number matches a school where the student is not enrolled, the course reference will report with the school where the course match is found. If there is more than 1 school with that course number, pick the school with the highest schoolID.</p> <p>If the School Number on the transcript is not in the ODS and the course number does not match any course in the district, a record will not send and will not trigger an error</p> <p>Do not send a record if the transcript's score is null</p> <p>Do not send record if the School Exclude check box is checked</p> <p>Do not send record if the Calendar Exclude check box is checked</p>
Delete /Post Put	<p>When any part of the Natural Key is changed</p> <p>When any field not part of the Natural Key is changed</p>

Delete	<p>When a transcript record is deleted for a student</p> <p>All Transcript records will only delete when a student has only 1 Student School Association record for a specific Year and that record is deleted</p> <p>(Note: If a new Student School Association record is created, existing records will not re-post, a resync must be completed to resend the data)</p>
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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Courses
- 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 ' RESOURCE ' failed. FIELD is required.	An element of the JSON that is required is missing and needs to be added. <ul style="list-style-type: none">• Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.
400: ' RESOURCE ' failed. RESOURCE reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. <ul style="list-style-type: none">• 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.



<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"> • Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources. • 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. • 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.
<p>404: Failed to delete 'RESOURCE'. 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"> • This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.
<p>409: A natural key conflict occurred when attempting to create a new resource 'RESOURCE' 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"> • 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"> ◦ 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.
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the 'RESOURCE' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> • Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.



500: Internal Server Error.	<p>Something unexpected happened and no specific error message could be returned.</p> <ul style="list-style-type: none">• 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.• 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">◦ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.◦ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.◦ Investigation is needed in these cases as there are many different potential causes.
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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. For Core Ed-Fi connections, it indicates what the data standard 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	courseAttemptResultDescriptor	<p>The result from the student's attempt to take the course, for example: Pass, Fail, Incomplete, Withdrawn</p> <hr/> <p>Report the Ed-Fi Code from the mapping for the state score selected on the Transcript.</p>	M	Student Information> General> Transcripts>Score	transcriptcourse.score	
2	courseReference	<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			

3	studentAcademicRecordReference	<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			
4	alternativeCourseCode	<p><i>The local code assigned by the school that identifies the course offering, the code from an external educational organization, or other alternate course code.</i></p> <hr/> <p>Reports the Course Number.</p>	O	Student Information> General> Transcripts> Course Number	transcriptcourse. courseNumber	
5	alternativeCourseTitle	<p><i>The descriptive name given to a course of study offered in the school, if different from the CourseTitle.</i></p> <hr/> <p>Reports the Course Name.</p>		Student Information> General> Transcripts> Course Name	transcriptcourse. courseName	
6	attemptedCredits	<p><i>The value of credits or units of value awarded for the completion of a course.</i></p> <hr/> <p>Report the Credits Attempted.</p>	O	Student Information> General> Transcripts> Attempted	transcriptcredit. creditsAttempted	

7	CourseTitle	<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 Course Name.</p>	O	Student Information> General> Transcripts> Course Name	transcriptcourse. courseName	
8	earnedCreditConversion	<p>The type of credits or units of value awarded for the completion of a course</p> <p>Report the Credits Earned.</p>	O			
9	earnedCredits	<p><i>The value of credits or units of value awarded for the completion of a course.</i></p> <hr/> <p>Report the Credits Earned.</p>	M	Student Information> General> Transcripts> Earned	transcriptcredit. creditsAttempted	

10	finalLetterGradeEarned	<p><i>The final indicator of student performance in a class as submitted by the instructor.</i></p> <hr/> <p>Reports the Score when it is an alpha character (not a number).</p>	O	Student Information> General> Transcripts> Current Score	transcriptcourse. score	
11	finalNumericGradeEarned	<p><i>The final indicator of student performance in a class as submitted by the instructor.</i></p> <hr/> <p>Reports the Score when it is a number.</p>	O	Student Information> General> Transcripts> Current Score	transcriptcourse. score	
12	methodCreditEarnedType	This data element is optional and does not report.				
13	whenTakengradeLevelDescriptor	This data element is optional and does not report.				
14	externalEducationOrganziationReference	This data element is optional and does not report.				
15	attemptedCreditConversion	This data element is optional and does not report.				
16	attemptedCreditTypeDescriptor	This data element is optional and does not report.				
17	courseRepeatCodeDescriptor	This data element is optional and does not report.				
18	earnedadditionalCredits	This data element is optional and does not report.				

19	earnedCreditTypeDescriptor	This data element is optional and does not report.				
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Appendix