

AZ Ed-Fi Suite v7.3, Data Standard v6.0: Student Academic Records (SY 26-27)

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Summary

This educational entity represents the cumulative record of academic achievement for a student.

Object Triggering Logic

Action	Business Rule(s)
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Post

Reports a record when a student has a Transcript for a Course with a State Code that overlaps the configured year **AND** the Student's Grade is in 9-12 **OR**

Reports a record when a student has a Grade posted to a Grading Task that is marked as State Reported **AND** the Student's Grade is in K-8.

- Transcript-based records are only reported when the District ID on the Transcript is equal to the District ID associated with the student's Enrollment.
- A record is only reported for Enrollments, Transcripts, and Grades in the same School Year as the Ed-Fi Connection sending the record.
 - School Year dates are defined in School Year Setup.
 - If Start Date is NULL, 07/01/StartYear will be used.
 - If End Date is NULL, 06/30/EndYear will be used.
- When Term Type cannot be determined on a Transcript record, provide an error with the following message, "Could not identify a valid term type for transcript record"
- Do not report a record if the any of the following exclusions are present:
 - Enrollment State Exclude
 - Enrollment No Show

- Enrollment Grade Exclude from State Reporting
- Enrollment Start Status is *E: NON-SAIS DISTRICT USE ONLY!*
- Course Inactive
- Course State Exclude
- Calendar Exclude
- School Exclude

Delete/Post

Put

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.

- When any of the following information is changed on Transcripts:
 - Transcript ID (New Transcript)
 - Score
 - State Code
 - School Number
 - District Number
 - Grade
 - Ed-Fi Term Type
- When any of the following information is changed on Enrollments:
 - Enrollment ID (New Period Schedule)
 - Start Date
 - End Date
 - No Show
 - State Exclude
- When any of the following information is changed on Grades:
 - Grade ID (New Grade)

	<ul style="list-style-type: none"> • When any of the following information is changed on Courses: <ul style="list-style-type: none"> ◦ Course ID (New Course) ◦ State Code ◦ Inactive • Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
Delete	<ul style="list-style-type: none"> • When the Transcript record is deleted. • When the associated Enrollment is deleted or made to no longer overlap the configured year. • When the Student is now excluded in some way. • When the record was sent only from Graduation information and that Graduation information is removed or changed to no longer overlap the configured year. • When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies
 - Students
-

Dependent Resources (Downstream)

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

- Course Transcripts
-

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
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<p>400: Validation of 'RESOURCE' failed. FIELD is required.</p>	<p>An element of the JSON that is required is missing and needs to be added.</p> <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.
<p>400: 'RESOURCE' failed. RESOURCE reference could not be resolved.</p>	<p>A resource that was referenced from a difference resource does not yet exist.</p> <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.

403: Authorization denied. The claim does not have any established relationships with the requested resource.

The key/secret being used does not have permission to send a record for the resource / referenced resource.

- 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.

404: Failed to delete '**RESOURCE**'. Record does not exist.

The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist.

- This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.

409: A natural key conflict occurred when attempting to create a new resource '**RESOURCE**' with a duplicate key.

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.

- Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support.
 - 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.

409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '**RESOURCE**' entity.

The resource that the application is attempting to delete is referenced from another entity.

- 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.

Something unexpected happened and no specific error message could be returned.

- 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.
 - 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.



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.

Data Element Label	Business Rule(s)	Data Source GUI Path	Database Field

<p>1 termDescriptor (string)</p>	<p><i>The term for the session during the school year.</i></p> <hr/> <ul style="list-style-type: none"> • When reporting Transcript records posted using the Transcript Post tool (have an associated scoreID): <ul style="list-style-type: none"> ◦ Report the Ed-Fi Code mapped to the value selected for Ed-Fi Term Type on the transcript entry. ◦ If Transcript Ed-Fi Term Type is NULL, report the Ed-Fi Code mapped to the value selected for the Section Ed-Fi Term Descriptor Override (Sessions Resource Preferences override mapping). ◦ If Section Ed-Fi Term Descriptor Override is NULL, report the Ed-Fi Code mapped to the value selected for the Course Ed-Fi Term Descriptor Override (Sessions Resource Preferences override mapping). ◦ If the Course Ed-Fi Term Descriptor Override is NULL, report the Ed-Fi Code mapped to the Term the course is being offered in (Sessions Resource Preferences main mapping). ◦ If the Ed-Fi Code cannot be determined for the Term, report the Ed-Fi Code mapped to the Ed-Fi Transcript Term Override (Student Academic Records Resource Preferences). ◦ If no Ed-Fi Code can be determined, provide the error: "Could not identify a valid term type for transcript record." 	<p>N/A</p>	<p>N/A</p>
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		<ul style="list-style-type: none"> • When reporting Transcript records that are manually added (no scoreID): <ul style="list-style-type: none"> ◦ Report the Ed-Fi Code mapped to the value selected for Ed-Fi Term Type on the transcript record (Student Academic Records Resource Preferences). ◦ If the transcript Ed-Fi Term Type is NULL, report the Ed-Fi Code mapped to the Ed-Fi Transcript Term Override (Student Academic Records Resource Preferences). ◦ If no Ed-Fi Code can be determined, provide the error: "Could not identify a valid term type for transcript record." 		
2	educationOrganizationReference (reference)	<p><i>A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student Academic Record being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Schools resource.</p>	N/A	N/A
3	schoolYearTypeReference (reference)	<p><i>A reference to the School Year associated with the Student Academic Record being reported.</i></p> <hr/> <p>Reports the End Year the Transcript or Grade is associated with.</p>	Transcripts	Transcript Course .endYear

4	studentReference (reference)	<p>A reference to the Students resource associated with the Student Academic Record being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Students resource.</p>	N/A	N/A
5	academicHonors	This data element is optional and does not report.	N/A	N/A
6	classRanking	This data element is optional and does not report.	N/A	N/A
7	cumulativeAttempted CreditConversion	This data element is optional and does not report.	N/A	N/A
8	cumulativeAttempted Credits	This data element is optional and does not report.	N/A	N/A
9	cumulativeAttempted CreditTypeDescriptor	This data element is optional and does not report.	N/A	N/A
10	cumulativeEarned CreditConversion	This data element is optional and does not report.	N/A	N/A
11	cumulativeEarnedCredits	This data element is optional and does not report.	N/A	N/A

1 2	cumulativeEarned CreditTypeDescripto r	This data element is optional and does not report.	N/A	N/A
1 3	cumulativeGradePoi ntAverage	This data element is optional and does not report.	N/A	N/A
1 4	cumulativeGrade PointsEarned	This data element is optional and does not report.	N/A	N/A
1 5	diplomas	This data element is optional and does not report.	N/A	N/A
1 6	gradePointAverages	This data element is optional and does not report.	N/A	N/A
1 7	gradeValueQualifier	This data element is optional and does not report.	N/A	N/A
1 8	projectedGraduation Date	This data element is optional and does not report.	N/A	N/A
1 9	recognitions	This data element is optional and does not report.	N/A	N/A
2 0	reportCards	This data element is optional and does not report.	N/A	N/A
2 1	sessionAttempted CreditConversion	This data element is optional and does not report.	N/A	N/A

2 2	sessionAttemptedCredits	This data element is optional and does not report.	N/A	N/A
2 3	sessionAttemptedCreditTypeDescriptor	This data element is optional and does not report.	N/A	N/A
2 4	sessionEarnedCreditConversion	This data element is optional and does not report.	N/A	N/A
2 5	sessionEarnedCredits	This data element is optional and does not report.	N/A	N/A
2 6	sessionEarnedCreditTypeDescriptor	This data element is optional and does not report.	N/A	N/A
2 7	sessionGradePointAverage	This data element is optional and does not report.	N/A	N/A
2 8	sessionGradePointsEarned	This data element is optional and does not report.	N/A	N/A

Appendix

