NE Ed-Fi Suite v7.3, Data Standard v5.2: Student Academic Records

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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)

Post	Reports a record when a student has an Enrollment that overlaps the configured year **AND** has Transcript records **OR**

Reports a record when a student has an Enrollment that overlaps the configured year **AND** has a Diploma Date within the configured year **AND** has a value for Diploma Type.

- The "Send Data for Current Year Records Only?" mapping will control if Student Academic Records are sent only for the configured year or for all years.
  - Checked = Sent only for the configured year.
  - Unchecked = Sent for all years.
    - This is the default.
  - This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Academic Records resource.
- A record is only reported for Enrollments (and Transcripts, depending on the above setting) 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 No Show
  - 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)
  - Attempted Credits
  - Earned Credits
  - Score
  - Weighted GPA Value
  - Unweighted GPA Value
  - 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
- When any of the following information is changed on Graduation:
  - Graduation ID (New Graduation Information)
  - Diploma Type
  - Diploma Date
- Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed. |

Delete	
	• 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
400: Validation of '**RESOURCE**' failed. **FIELD** is required.	An element of the JSON that is required is missing and needs to be added. • 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.
	- 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.

- 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.

REGULAR

Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)

1	**termDescriptor** (*string*)	*The term for the session during the school year.*	M	N/A	N/A	✅
		• When reporting Transcript records posted using the Transcript Post tool (have an associated scoreID):				

The term for the session during the school year.

- When reporting Transcript records posted using the Transcript Post tool (have an associated scoreID):
  - 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."
- When reporting Transcript records that are manually added (no scoreID):
  - 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." - When reporting from a Graduation Record because there are no Course Transcript records for the student: - Report the Ed-Fi Code mapped to the term in Sessions Resource Preferences that the Diploma Date overlaps. - If the Diploma Date does not overlap a term, or the term does not have an Ed-Fi Code mapped, use the Ed-Fi Code mapped to the term with the latest end date. - If there is more than one term schedule, reports from the Primary term schedule. - If the Diploma Date overlaps more than one term, report the value from the term with the highest termID.				
2	**educationOrganizationReference** (*reference*)	*A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student Academic Record being reported.* <hr> Reports the fields that are part of the Natural Key for the Local Education Agencies resource.	M	N/A	N/A	✅

3	schoolYearTypeReference (*reference*)	*A reference to the School Year associated with the Student Academic Record being reported.* Reports the **End Year** the Transcript or Diploma Date is associated with.	M	Transcripts Graduation	Transcript Course .endYear Graduation .diplomaDate	✓
4	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student Academic Record being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✓
5	cumulativeAttempted Credits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Attempted** for all time. • Reports **0** if the student does not have any Credits Attempted. • This value will be the same for all Student Academic Records reporting. • Does not report if the Student Academic Record is reporting only from Graduation information.	O	Transcripts	Transcript Credit .creditsAttempted	✓

| 6 | cumulativeEarnedCredits (*number*) | *The value of credits or units of value awarded for the completion of a course.*

Reports the total number of **Credits Earned** for all time.

• Reports **0** if the student does not have any Credits Earned.
• This value will be the same for all Student Academic Records reporting.
• Does not report if the Student Academic Record is reporting only from Graduation information. | O | Transcripts | Transcript Credit .creditsEarned | ✓ |

| 7 | cumulativeGradePointAverage (*number*) | *A measure of average performance in all courses taken by an individual during his or her school career as determined for record-keeping purposes. This is obtained by dividing the total grade points received by the total number of credits attempted. This usually includes grade points received and credits attempted in his or her current school as well as those transferred from schools in which the individual was previously enrolled.*

Reports the student's Cumulative GPA.
• This value will be the same for all Student Academic Records reporting.
• Does not report if the Student Academic Record is reporting only from Graduation information.
• Transcripts will only be included in the Cumulative GPA when:
 ◦ GPA Weight has a value greater than 0.
 ◦ GPA Value is entered in either Unweighted, Weighted, or both.
 ◦ Grade Level does not have Exclude Cumulative GPA checked in Calendar Grade Level Setup.
 ◦ Transcript Grade Level matches an Enrollment Grade Level for the student.
• The number of significant digits reporting is determined by the System Preferences setting "# of Significant GPA Decimal Places"

Notes:
This data element will only report if the Ed-Fi Configuration's Data Standard is 4.0.0 or prior. | O | Transcripts | v_CumGPA .cumGPA | ✅ |

| 8 | diplomas (*array*) | *An unordered collection of studentAcademicRecordDiplomas. Diploma(s) earned by the student.*<hr>Reports the following data elements in an array when a student has a value entered in Diploma Date and Diploma Type **AND** the Diploma Date falls within the configured year. This information will report on all Student Academic Records:

• diplomaTypeDescriptor
  ◦ Reports the Ed-Fi Code mapped the value for **Diploma Type**.
    ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Academic Records resource.
• diplomaAwardDate
  ◦ Reports the **Diploma Date**.
• achievementCategoryDescriptor
  ◦ Reports the Ed-Fi Code mapped the value for **Diploma Type**.
    ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Academic Records resource.
• The following data elements do not report:
  ◦ diplomaLevelDescriptor
  ◦ achievementCategorySystem
  ◦ achievementTitle
  ◦ criteria
  ◦ criteriaURL
  ◦ cteCompleter | O | Graduation | Graduation.diplomaType

Graduation.diplomaDate | ✓ |

		◦ diplomaAwardExpiresDate ◦ diplomaDescription ◦ evidenceStatement ◦ imageURL ◦ issuerName ◦ issuerOriginURL				
9	sessionAttemptedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Attempted** for the Term Descriptor / Year combination being reported. • Reports **0** if the student does not have any Credits Attempted. • This value will be the same for all Student Academic Records reporting. • Does not report if the Student Academic Record is reporting only from Graduation information.	O	Transcripts	Transcript Credit .creditsAttempted	✅

1 0	sessionEarnedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Earned** for the Term Descriptor / Year combination being reported. • Reports **0** if the student does not have any Credits Earned. • This value will be the same for all Student Academic Records reporting. • Does not report if the Student Academic Record is reporting only from Graduation information.	O	Transcripts	Transcript Credit .creditsEarned	✅
1 1	academicHonors	This data element is optional and does not report.	O	N/A	N/A	N/A
1 2	classRanking	This data element is optional and does not report.	O	N/A	N/A	N/A
1 3	cumulativeAttempted CreditConversion	This data element is optional and does not report.	O	N/A	N/A	N/A
1 4	cumulativeAttempted CreditTypeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
1 5	cumulativeEarned CreditConversion	This data element is optional and does not report.	O	N/A	N/A	N/A
1 6	cumulativeEarned CreditTypeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
1 7	cumulativeGrade PointsEarned	This data element is optional and does not report.	O	N/A	N/A	N/A

1 8	gradePointAverages	This data element is optional and does not report.	O	N/A	N/A	N/A
1 9	gradeValueQualifier	This data element is optional and does not report.	O	N/A	N/A	N/A
2 0	projectedGraduation Date	This data element is optional and does not report.	O	N/A	N/A	N/A
2 1	recognitions	This data element is optional and does not report.	O	N/A	N/A	N/A
2 2	reportCards	This data element is optional and does not report.	O	N/A	N/A	N/A
2 3	sessionAttempted CreditConversion	This data element is optional and does not report.	O	N/A	N/A	N/A
2 4	sessionAttempted CreditTypeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
2 5	sessionEarned CreditConversion	This data element is optional and does not report.	O	N/A	N/A	N/A
2 6	sessionEarned CreditTypeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
2 7	sessionGradePointAv erage	This data element is optional and does not report.	O	N/A	N/A	N/A
2 8	sessionGradePointsE arned	This data element is optional and does not report.	O	N/A	N/A	N/A

RULE 18

Data Element Label	Business Rule(s)	M, C or O	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
termDescriptor (*string*)	*The term for the session during the school year* Reports "Year Round"	M	n/a	n/a	❌
sessionAttemptedCredits	*The number of an credits an individual attempted to earn in this session* Reports the sum of credits attempted in the duration of the Rule 18 program	O	n/a	n/a	EXT
sessionEarnedCredits	*The number of an credits an individual earned in this session* Reports the sum of credits earned in the duration of the Rule 18 program	O	n/a	n/a	EXT

Appendix