

Core Ed-Fi Suite v3.6.1, Data Standard v4.0: Graduation Plans

January
2025

Core Ed-Fi Suite v3.6.1, Data Standard v4.0: Graduation Plans

Table of Contents

- [Summary](#)
- [Object Triggering Logic](#)
- [Required Resources \(Upstream\)](#)
- [Dependent Resources \(Downstream\)](#)
- [Error Log](#)
- [Object Data Elements Logic](#)
- [Appendix](#)

Summary

This entity is a plan outlining the required credits, credits by subject, credits by course, and other criteria required for graduation. A graduation plan may be one or more standard plans defined by an education organization and/or individual plans for some or all students.

Object Triggering Logic

Action	Business Rule(s)
Post	<p>Reports a record for each Graduation Program and Career Tech (CTE) Program mapped to an Ed-Fi Code.</p> <ul style="list-style-type: none"> • One record will report for each School Year the Program is offered in. <ul style="list-style-type: none"> ◦ This is defined by the Cohort/Graduation Active Start Year and the Cohort/Graduation Active End Year. <ul style="list-style-type: none"> ▪ If Cohort/Graduation Active End Year is NULL, a record will report for all School Years between the Cohort/Graduation Active Start Year and the Ed-Fi Configuration Year + 4. <ul style="list-style-type: none"> • Example: If the Cohort/Graduation Active Start Year is 23-24, the Cohort/Graduation Active End Year is NULL, and the Ed-Fi Configuration Year is 24-25, we will report a record for 2024, 2025, 2026, 2027, 2028, and 2029. • Graduation Programs are setup in Graduation Plan Setup and Career Tech Programs are setup in Academic Program Setup. <ul style="list-style-type: none"> ◦ Career Tech Programs must have a Program Type or Category of CTE. • Cohort/Graduation Active Start Year must be populated on the Graduation Program or Career Tech Program for a record to report.

<p>Delete /Post</p> <p>Put</p>	<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"> • When any of the following information is changed on Academic Program Setup: <ul style="list-style-type: none"> ◦ Program ID (New Academic Program) ◦ Program Type ◦ Category ◦ Cohort/Graduation Active Start Year ◦ Cohort/Graduation Active End Year • When any of the following information is changed on Graduation Program Setup: <ul style="list-style-type: none"> ◦ Program ID (New Graduation Program) ◦ Cohort/Graduation Active Start Year ◦ Cohort/Graduation Active End Year ◦ Credits
<p>Delete</p>	<ul style="list-style-type: none"> • Graduation Plans records are NOT deleted automatically. • The Delete Tool must be used to delete a Graduation Plans record. <ul style="list-style-type: none"> ◦ This will only work if all downstream data has been removed from the ODS.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies

Dependent Resources (Downstream)

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

- Student School 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 ' RESOURCE ' failed. FIELD is required.	<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.
400: ' RESOURCE ' failed. RESOURCE reference could not be resolved.	<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.

<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.

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.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
1	graduationPlanTypeDescriptor (<i>string</i>)	<p><i>The type of academic plan the student is following for graduation.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the Graduation or Career Tech Program reporting.</p> <ul style="list-style-type: none"> This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Graduation Plans resource. 	M	Graduation Program Setup	Program . programID	✓

2	educationOrganizationReference (reference)	<p><i>A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Graduation Plan being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Local Education Agencies resource.</p>	M	N/A	N/A	✓
3	graduationSchoolYearTypeReference (reference)	<p><i>A reference to the School Year associated with the Graduation Plan being reported.</i></p> <hr/> <p>Reports the End Year of the School Year the Graduation Plan is active.</p> <ul style="list-style-type: none"> • Reports a record for each School Year contained between the Cohort/Graduation Active Start Year and the Cohort/Graduation Active End Year. <ul style="list-style-type: none"> ○ If Cohort/Graduation Active End Year is NULL, a record will report for all School Years between the Cohort /Graduation Active Start Year and the Ed-Fi Configuration Year + 4. 	M	Calendar Information	Calendar .endYear	✓

4	totalRequiredCredits (number)	<p><i>The value of credits or units of value awarded for the completion of a course.</i></p> <hr/> <p>Reports the Total Credits required by the Graduation Plan.</p> <ul style="list-style-type: none"> • Reports 0 if reporting for a Career Tech Program. 	M	Graduation Plan Setup > Credit Requirements	CreditRequirement .credits	✔
5	creditsByCourses	This data element is optional and does not report.	O	N/A	N/A	N/A
6	creditsByCreditCategories	This data element is optional and does not report.	O	N/A	N/A	N/A
7	creditsBySubjects	This data element is optional and does not report.	O	N/A	N/A	N/A
8	individualPlan	This data element is optional and does not report.	O	N/A	N/A	N/A
9	requiredAssessments	This data element is optional and does not report.	O	N/A	N/A	N/A
10	totalRequiredCreditConversion	This data element is optional and does not report.	O	N/A	N/A	N/A
11	totalRequiredCreditTypeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A

Appendix