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

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

Table of Contents

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

Summary

This educational entity represents the organization of subject matter and related learning experiences provided for the instruction of students on a regular or systematic basis.

Object Triggering Logic

Action	Business Rule(s)
Post	Report a record when a Course is created and saved. A record is only reported for Courses in a Calendar 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. Do not report a record if the any of the following exclusions are present: Course Inactive Calendar Exclude School Exclude

infinitecampus.com CAMPUS SIS CORE PRODUCT - CORE ED-FI SUITE V3.6.1, DATA STANDARD V4.0: COURSES

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	 When any of the following information is changed on Course Information: Course ID (New Course) Active Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
Delete	 When a Course is deleted. 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:

Schools

Dependent Resources (Downstream)

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

Course Offerings

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.

CAMPUS SIS CORE PRODUCT - CORE ED-FI SUITE V3.6.1, DATA STANDARD V4.0: COURSES

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	courseCode (string)	A unique alphanumeric code assigned to a course. Reports the Course ID.	M	Course Information	Course .courseID	•

2	identificationCodes (array)	An unordered collection of courseldentificationCodes. The code that identifies the organization of subject matter and related learning experiences provided for the instruction of students. Reports the following data elements in an array: • courseldentificationSystemDescriptor ○ Reports the Ed-Fi Code mapped to the identificationCode reporting. ■ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Courses resource. • identificationCode ○ Reports the State Code or the Number. ■ If both are populated and mapped in courseldentificationSystemDescriptor, then both will report separate records in this array. • The following data elements do not report: ○ assigningOrganizationIdentificationCode ○ courseCatalogURL	M	Course Information	Course .number	
3	educationOrganizationReference (reference)	A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Cohort being reported. Reports the fields that are part of the Natural Key for the Schools resource.	M	N/A	N/A	•

4	academicSubjectDescriptor (string)	The intended major subject area of the course. Reports the Ed-Fi Code mapped to the value selected for SCED Subject Area. • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Courses resource. • Do not report if SCED Subject Area is NULL or not mapped to an Ed-Fi Code.	O	Course Information	Course , scedSubjectArea	•
5	courseTitle (string)	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, and language arts). Reports the Name.	M	Course Information	Course .name	

6	levelCharacteristics (array)	An unordered collection of courseLevelCharacteristics. The type of specific program or designation with which the course is associated (e.g., AP, IB, Dual Credit, CTE). Reports the following data elements in an array: • courseLevelCharacteristicDescriptor • Reports the Ed-Fi Code mapped to the value selected for Difficulty Level. • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Courses resource. • Do not report if Difficulty Level is NULL or not mapped to an Ed-Fi Code.	O	Course Information	Course . honorsCode	
7	numberOfParts (number)	The number of parts identified for a course. Reports the value selected in the SCED Sequence "Part m" field. • Report 1 if NULL.	O	Course Information	Course . scedSequenceMax	•
8	careerPathwayDescriptor	This data element is optional and does not report.	0	N/A	N/A	N/A
9	competencyLevels	This data element is optional and does not report.	0	N/A	N/A	N/A
10	courseDefinedByDescriptor	This data element is optional and does not report.	0	N/A	N/A	N/A
11	courseDescription	This data element is optional and does not report.	0	N/A	N/A	N/A

CAMPUS SIS CORE PRODUCT - CORE ED-FI SUITE V3.6.1, DATA STANDARD V4.0: COURSES

12	courseGPAApplicabilityDescriptor	This data element is optional and does not report.	0	N/A	N/A	N/A
13	dateCourseAdopted	This data element is optional and does not report.	0	N/A	N/A	N/A
14	highSchoolCourseRequirement	This data element is optional and does not report.	0	N/A	N/A	N/A
15	learningObjectives	This data element is optional and does not report.	0	N/A	N/A	N/A
16	learningStandards	This data element is optional and does not report.	0	N/A	N/A	N/A
17	maxCompletionsForCredit	This data element is optional and does not report.	0	N/A	N/A	N/A
18	maximumAvailableCreditConversion	This data element is optional and does not report.	0	N/A	N/A	N/A
19	maximumAvailableCredits	This data element is optional and does not report.	0	N/A	N/A	N/A
20	maximum Available Credit Type Descriptor	This data element is optional and does not report.	0	N/A	N/A	N/A
21	minimumAvailableCreditConversion	This data element is optional and does not report.	0	N/A	N/A	N/A
22	minimumAvailableCredits	This data element is optional and does not report.	0	N/A	N/A	N/A
23	minimumAvailableCreditTypeDescriptor	This data element is optional and does not report.	0	N/A	N/A	N/A
24	offeredGradeLevels	This data element is optional and does not report.	0	N/A	N/A	N/A
25	timeRequiredForCompletion	This data element is optional and does not report.	0	N/A	N/A	N/A



CAMPUS SIS CORE PRODUCT - CORE ED-FI SUITE V3.6.1, DATA STANDARD V4.0: COURSES

Appendix