

NE Ed-Fi Suite v3.6.1, Data Standard v4.0: Course Offerings

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Summary

This entity represents an offering of a course by school during a session, representing the course catalog of available courses.

Object Triggering Logic

Action	Business Rule(s)
Post	When a section with Section Placement is created and saved 1 record will report per Course and Term Type combination Do not send if course is marked as Inactive Do not send records if the Calendar Exclude check box is checked Do not send a record if the School Exclude checkbox is checked When the Secondary School field is populated, report information from this new school as an override to the current school.

Delete /Post Put	When the Local Course Number is changed If the Term Descriptor changes either via section placement or mapping override and a course offering already exists with non-matching Term Descriptors When Course information is changed and saved Course Name When there are two Sections with the same natural key and 1 is deleted, the other record will post with the remaining records data
Delete	When a section is deleted When a section schedule placement is removed and saved

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools
- Courses
- Sessions

Dependent Resources (Downstream)

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

- Sections

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.
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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.

Regular

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
1	courseReference	A reference to the related Course resource 1. This value is to be a combination of the course State Code. Education Organization ID should report as the number '1'.	M	Index> Search> Course/Section> Course> State code		
2	schoolReference	A reference to the related School resource 1. If the Calendar > Calendar >Secondary School <> NULL, report from the Secondary School 2. Otherwise, report from the Primary school	M	Calendar > Calendar > Secondary School Calendar > Calendar > School		

3	instructionalTimePlanned	The planned total number of clock minutes of instruction for this course offering. - This fields collects the total number of minutes planned for the course - Example: If a course is scheduled to occur for 50 minutes per class, and 87 classes per year, report 4350 for this field. - Compare Course > Section >Section Schedule Placement with Calendar > Calendar > Periods to get total minutes per day - Calendar > Calendar > Days - count all instructional days for reporting period - Multiply 1aii and 1aiii to get value for InstructionalTimePlanned	M	Scheduling > Course > Section >Section Schedule Placement System Administration > Calendar > Calendar > Periods System Administration > Calendar > Calendar > Days		EXT
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Rule 18

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
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1	localCourseCode	The local code assigned by the LEA or Campus that identifies the organization of subject matter and related learning experiences provided for the instruction of students. 1. Reports the course state code	M			
2	courseReference	A reference to the related Course resource 1. This value is to be a combination of the course State Code. Education Organization ID should report as the number '1'.	M	Index> Search> Course/Section> Course> State code		
3	schoolReference	A reference to the related School resource 1. Reports the Schools resource of the school that the Rule 18 program record was created in.	O	Student Information > General >Programs Fact		
4	localCourseTitle	The descriptive name given to a course of study. 1. Finds course with courseCode=Campus course state code and Education Organization ID = '1', and reports the associated course title.				

Appendix