

DE Ed-Fi Suite v3.6.2, Data Standard v4.0: Courses

June
2024

DE Ed-Fi Suite v3.6.2, 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	<p>A record will be posted when a Course Master is created and saved.</p> <ul style="list-style-type: none"> • Do not report a record if the any of the following exclusions are present: <ul style="list-style-type: none"> ○ Course is marked Inactive ○ Calendar Exclude ○ School Exclude

<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 the following information is changed on a Course Master: <ul style="list-style-type: none"> ○ State Code ○ Number ○ Name ○ Type ○ Course Level ○ Course Credit Basis ○ SCED Subject Area ○ SCED Course Identifier ○ SCED Course Level ○ SCED Lowest Grade ○ SCED Highest Grade ○ SCED Sequence (part n) ○ SCED Sequence (part m) ○ CIP Code • When the following information is changed on a Course Master's Grading Tasks: <ul style="list-style-type: none"> ○ Credit
<p>Delete</p>	<ul style="list-style-type: none"> • When a Course Master is deleted.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools (Pre-populated)

Dependent Resources (Downstream)

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

- Course Offerings
- Sections
- Staff Section Associations
- Student Section 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

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.

	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)	<p><i>A unique alphanumeric code assigned to a course.</i></p> <hr/> <p>Reports the State Code-Course Master ID.</p>	M	Course Master	<p>CourseMaster. stateCode</p> <p>CourseMaster. courseMasterID</p>	✗
2	identificationCodes (array)	<p><i>An unordered collection of courseIdentificationCodes. The code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.</i></p> <hr/>	M	Course Master	<p>CourseMaster. number</p> <p>CourseMaster. scedSubjectArea CourseMaster. scedCourseId CourseMaster. scedCourseLevel CourseMaster. scedLowestGrade CourseMaster. scedHighestGrade CourseMaster. scedSequenceNum CourseMaster. scedSequenceMax</p>	✗

- courseIdentificationSystemDescriptor
 - Reports based on the table below.
- identificationCode
 - Reports based on the table below.

Course Identification System	Identification Code
LEA course code	Course Number
NCES	SCED Subject Area + SCED Course Identifier
CIP	CIP Code
SCED course code	SCED Subject Area + SCED Course Identifier + SCED Course Level + SCED L: lowest Grade + SCED Highest Grade + SCED Sequence (part n) + SCED Sequence (part m)

- The following data elements do not report:
 - assigningOrganizationIdentificationCode
 - courseCatalogURL

CourseMaster.
cipCode

3	educationOrganizationReference (<i>reference</i>)	<p><i>A reference to the Local Education Agencies resource associated with the Course being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Local Education Agencies resource.</p> <ul style="list-style-type: none"> educationOrganizationId = Ed-Fi District Number 	M	District Information	District.entityID	✘
4	academicSubjectDescriptor (<i>string</i>)	<p><i>The intended major subject area of the course.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for Type.</p>	M	Course Master	CourseMaster.type	✘
5	courseTitle (<i>string</i>)	<p><i>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).</i></p> <hr/> <p>Reports the Name.</p>	M	Course Master	CourseMaster.name	✘

6	levelCharacteristics (array)	<p>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).</p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> courseLevelCharacteristicDescriptor <ul style="list-style-type: none"> Reports the Ed-Fi Code mapped to the value selected for Course Level. 	M	Course Master	CourseMaster.honorsCode	✘
7	maximumAvailableCredits (number)	<p>The value of credits or units of value awarded for the completion of a course.</p> <hr/> <p>Reports the sum of the Credits from the Grading Tasks on the Course Master.</p>	M	Course Master	GradingTaskCredit.credit	✘
8	maximumAvailableCreditTypeDescriptor (string)	<p>The type of credits or units of value awarded for the completion of a course.</p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for Course Credit Basis.</p>	M	Course Master	Course.creditEarnedMethod	✘
9	numberOfParts (number)	<p>The number of parts identified for a course.</p> <hr/> <p>Report the "Part m" portion of the SCED Sequence.</p> <ul style="list-style-type: none"> Report 1 if NULL. 	M	Course Master	CourseMaster.scedSequenceMax	✘
10	careerPathwayDescriptor	This is optional, does not report.	O	N/A	N/A	N/A

11	competencyLevels	This is optional, does not report.	O	N/A	N/A	N/A
12	courseDefinedByDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
13	courseDescription	This is optional, does not report.	O	N/A	N/A	N/A
14	courseGPAApplicabilityDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
15	dateCourseAdopted	This is optional, does not report.	O	N/A	N/A	N/A
16	highSchoolCourseRequirement	This is optional, does not report.	O	N/A	N/A	N/A
17	learningObjectives	This is optional, does not report.	O	N/A	N/A	N/A
18	learningStandards	This is optional, does not report.	O	N/A	N/A	N/A
19	maxCompletionsForCredit	This is optional, does not report.	O	N/A	N/A	N/A
20	maximumAvailableCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
21	minimumAvailableCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
22	minimumAvailableCredits	This is optional, does not report.	O	N/A	N/A	N/A
23	minimumAvailableCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
24	offeredGradeLevels	This is optional, does not report.	O	N/A	N/A	N/A
25	timeRequiredForCompletion	This is optional, does not report.	O	N/A	N/A	N/A
26	apExamCodeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
27	coreSubjectDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
28	staffCredentialFieldDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
29	secondaryStaffCredentialFieldDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
30	secondaryStaffClassroomServiceStatusDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
31	secondaryStaffRoleDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
32	active	This is optional, does not report.	O	N/A	N/A	N/A

33	averagePassTimeMinutesPerWeek	This is optional, does not report.	O	N/A	N/A	N/A
34	fractionOfYearOffered	This is optional, does not report.	O	N/A	N/A	N/A
35	levelNumber	This is optional, does not report.	O	N/A	N/A	N/A
36	minutesPerWeekAverage	This is optional, does not report.	O	N/A	N/A	N/A
37	unitCountExceptionSchoolReference	This is optional, does not report.	O	N/A	N/A	N/A

Appendix