Course Transcripts (Missouri v3.6)

Last Modified on 12/14/2025 8:45 pm CST

Object Triggering Logic | School Exclude, Calendar Exclude, Resource Toggle and Resync Logic | Natural Key Changes, Cascading Updates, and Deletes Logic | Scope Year Logic | Resource Preferences | Identity Mapping Object Key | Event Queue Detail | Object Data Elements | Type/Descriptor

This entity is the final record of a student's performance in their courses at the end of a semester or school year.

Object Triggering Logic

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	When transcript records are posted for a student and they have a valid Student School Association for the Scoped Year. Or When a resync is completed for the school the student is enrolled, all eligible transcript records for all years will send for the Student - Do not send a record if the course is marked as inactive or state exclude. - The course must exist in the ODS for the Course Reference to send as part of this resource. Use the following logic to determine which Course Reference to send: - If the School Number and Course Number on the transcript record are in the configured year ODS, report the Course reference with those numbers. - If School Number and Course Number on the transcript record are in the ODS for the configured year but not the school where the student is enrolled, report the course reference with the School and Course Number that matches the School & Course in the ODS. - If School Number on the transcript record is in the ODS for the configured year but not the school where the student is enrolled but the Course number matches the school they are enrolled, the course reference will report with the School Number where the student is enrolled. - If the School Number on the transcript record is not in the ODS and the course number matches the school where the student is enrolled, the course reference will report where the student is enrolled. - If the School Number on the transcript is not in the ODS but the Course Number matches a school where the student is not enrolled, the course reference will report with the school where the course match is found. If there is more than 1 school with that course number, pick the school with the highest schoolID. - If the School Number on the transcript is not in the ODS and the course number does not match any course in the district, a record will not send and will not trigger an error. - Do not send a record if the transcript's score is null. - Do not send record if the School Exclude check box is checked. - Do not send record if the Calendar Exclude check box is checked.
Post/Delete	When any part of the Natural Key is changed.
Put	When fields that are not part of the natural key are changed.
Delete	When a transcript record is deleted for a student.
Delete	All Transcript records will only delete when a student has only 1 Student School Association record for a specific Year and that record is deleted. (Note: If a new Student School Association record is created, existing records will not re-post, a resync must be completed to resend the data)

School Exclude, Calendar Exclude, Resource Toggle and Resync Logic

This table describes the School Exclude, Calendar Exclude, Resource Toggle and Resync logic of this object.

Action	Trigger
None	If a resource is toggled to 'OFF' after data has sent, all sent data will remain in the ODS but no new data will send.
Resync	If a record is in the Ed-Fi Identity Mapping table and not in the ODS, it will be deleted from the Ed-Fi Identity Mapping table
Resync	If a record is in the ODS and it does not have a matching record in Campus or the Ed-Fi Identity Mapping table, it will be deleted from the ODS.
Resync	If a mapping is changed in Resource Preferences, a resync will need to be done to reflect the changes.

Natural Key Changes, Cascading Updates, and Deletes Logic

This table describes the Natural Key Changes/Cascading Updates and Deletes logic of this object.

Action	Trigger
Post/Delete	Natural Key change: • If the Natural Key changes from the Course Reference or Student Academic Reference, the cascading delete/post logic from those resources will trigger updates to the Course Transcripts. • Records will delete/post if the Credits Earned or Credits Attempted are changed on a student's transcript record.

Scope Year Logic

This table describes scope year logic of this object.

Logic
Transcript records will send to each scope year where the student has a Student School Association, regardless of the Transcript School Year. • Data will only send for years that have valid configuration. • A resync must be completed at the beginning of each year so that all years transcript records will be loaded in the ODS.

Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Credit Earned/Attempted	Course Attempt Result Descriptor

Identity Mapping Object Key

Campus Object Type	Object Key Data Source
TranscriptCourse	transcriptID

Event Queue Detail

This table describes the Event Queue Detail of this object.

Campus Table	Ed-Fi Action	Fields
transcriptcourse	Post/Put/Delete	The primary table used for sending data for this resource.
transcriptcredit	Post/Put/Delete	The primary table used for sending data for this resource.

Object Data Elements

This table describes data elements sent within the Course Transcripts resource.

Data Element Label	Description	M, C, or O	Location

Data Element Label	Description	M, C, or O	Location

courseAttemptResultDescriptor	The result from the student''s attempt to take the course, for example: Pass, Fail, Incomplete, Withdrawn.
	• Report the Ed-Fi Code associated with the **State Score** that is mapped to the Score selected.
	• If there is no State Score mapped to the Score selected, or the State Score does not have an Ed-Fi Code mapped to it, report the Ed-Fi Code mapped to the **calculation between Attempted Credits and Earned Credits**.
	  ○ When the sum of credits Earned is >= the sum of credits Attempted
	  ○ When the sum of credits Earned is blank or = 0
	  ○ When the sum of credits Earned is not blank or = 0 and < than the sum of credits Attempted
		M	Transcripts> Earned
			AND
			Student Information> General> Transcripts> Attempted
			
			transcriptcredit.creditsAttempted
			
			AND
			
			transcriptcredit.creditsEarned

courseReference	A reference to the related Course resource Reports the fields that are part of the Natural Key for the Course resource • courseCode = **Course > State Code** • educationOrganizationId = **1**	M	

Data Element Label	Description	M, C, or O	Location
studentAcademicRecordReference	A reference to the related Student Academic Record resource. Reports the Natural Key fields for the Student Academic Record resource • educationOrganizationId = **Reporting District Code** • schoolYear = **End Year of School Year** • studentUniqueId = **Student State ID** • termDescriptor = Use "**Full Year**"	M	

attemptedCredits	The number of credits attempted for a course.
	Report ATTEMPTED credits from Student Information > General > Transcript
	1. Student must be rostered in a course/section
	2. Credits must be:
	  ○ Course has a Credit Level = HS: High School OR MS: Middle School **_AND_**
	  ○ Credit is assigned to a (Course Master) grading task where Grading & Standards> Grading Tasks> Grading Task Detail> State Reported = checked
		O	Student Information> General> Transcripts> Attempted
			
			transcriptcredit.creditsAttempted

Data Element Label	Description	M, C, or O	Location

earnedCredits	The number of credits awarded or earned for the course.
	Report EARNED credits from Student Information > General > Transcript
	1. Student must be rostered in a course/section
	2. Credits must be:
	  ◦ Grade must be posted to that grading task **_AND_**
	  ◦ Grade must be mapped to a state score in Grading & Standards> Score Groups & Rubrics where Passing Score = checked.
	  ◦ Course has a Credit Level = HS: High School OR MS: Middle School **_AND_**
	  ◦ Credit is assigned to a (Course Master) grading task where Grading & Standards> Grading Tasks> Grading Task Detail> State Reported = checked
		M	Student Information> General> Transcripts> Earned
			
			transcriptcredit.creditsAttempted

earnedCreditTypeDescriptor	The type of credits or units of value awarded for the completion of a course. Reports the Transcript Record's Credit Type that is mapped to an Ed-Fi Code in resource preferences. • Report M if **Mathematics** • Report S if **Science** • All else, report NA.	O	Student Information> General> Transcripts> Credit Type
finalLetterGradeEarned	The final letter grade earned for the course. Report POSTED student grades from Student Information > General > Grades 1. Student must be rostered in a course/section 2. Grade must be: 1. If FCG grading task is	O	Grading & Standards> Score Groups & Rubrics> Score Grading & Standards> Grading Tasks> Grading Task Detail> State Reported

Data Element Label	Description	M, C, or O	Location
	marked for >1 terms for a student/course/section, return value for latest term only based on term start date.		

2. If >1 FCG grading task is marked for 1 term of a student/course/section, return value for latest FCG grading task created only.
3. mapped to State Score in the Score Group or Rubric **AND**
4. Tied to a Grading Task or Standard flagged as 'State Reported' ('State Reported' checkbox cannot be null) **AND**
5. Identified with Grading Task> Grading Task Detail> Code = FCG

For each student record returned that does NOT have a FCG entered, please return the following values:

1.
   1. Report **WD** IF:
      1. a student is rostered in the course/section **AND**
      2. was present in the course/section for at least one period **AND**
      3. drops the course/section **AND**
      4. is still NOT rostered at the end of that section **AND**
      5. does NOT have a FCG Final Course Grade:
   2. Report **IC** IF:
      1. a student is rostered in the course/section **AND**
      2. was present in the course/section for at least one

Data Element Label	Description	M, C, or O	Location

	period **_AND_**
	3. is still rostered at the end of that section **_AND_**
	4. does NOT have a FCG Final Course Grade
	3. **Do not report** IF:
	  1. the Score Group or Rubric is tied to a Grading Task Standard where code = FCG but is not 'State Reported' **_OR_**
	  2. the posted grade is not mapped to State Score		

gradingPerioddescriptor	The student must be rostered in a course/section. • Report the Section Editor > Course Time Unit from the Section, when the value is mapped in the gradingPeriod Resource Preferences. ○ If Null, report the Section editor > Semester Code, when the value is mapped in the gradingPeriod Resource Preferences.	M	Course/Section > Section Editor > Course Time Unit Course/Section > Section Editor > Semester Code

Type/Descriptor

▶ Click here to expand...

Course Attempt Result Descriptor

Ed-Fi Code	Short Description	Description	Namespace
Pass	Pass	Pass	uri://ed-fi.org/CourseAttemptResultDescriptor
Withdrawn	Withdrawn	Withdrawn	uri://ed-fi.org/CourseAttemptResultDescriptor
Fail	Fail	Fail	uri://ed-fi.org/CourseAttemptResultDescriptor
Incomplete	Incomplete	Incomplete	uri://ed-fi.org/CourseAttemptResultDescriptor

Earned Credit Type Descriptor

Ed-Fi Code	Short Description	Description	Namespace
M	Math	Student is taking a computer science course and is awarded math credit.	uri://dese.mo.gov/CreditTypeDescriptor

Ed-Fi Code	Short Description	Description	Namespace
NA	Not Applicable	Student is not taking a computer science course for math or science credit.	uri://dese.mo.gov/CreditTypeDescriptor
S	Science	Student is taking a computer science course and is awarded science credit.	uri://dese.mo.gov/CreditTypeDescriptor

Grading Period Descriptor

Ed-Fi Code	Short Description	Description	Namespace
Q1	Quarter 1	Quarter 1	uri://dese.mo.gov/GradingPeriodDescriptor
Q2	Quarter 2	Quarter 2	uri://dese.mo.gov/GradingPeriodDescriptor
Q3	Quarter 3	Quarter 3	uri://dese.mo.gov/GradingPeriodDescriptor
Q4	Quarter 4	Quarter 4	uri://dese.mo.gov/GradingPeriodDescriptor
S1	Semester 1	Semester 1	uri://dese.mo.gov/GradingPeriodDescriptor
S2	Semester 2	Semester 2	uri://dese.mo.gov/GradingPeriodDescriptor
YL	Year Long	Year Long	uri://dese.mo.gov/GradingPeriodDescriptor
T1	Trimester 1	Trimester 1	uri://dese.mo.gov/GradingPeriodDescriptor
T2	Trimester 2	Trimester 2	uri://dese.mo.gov/GradingPeriodDescriptor
T3	Trimester 3	Trimester 3	uri://dese.mo.gov/GradingPeriodDescriptor