IN Ed-Fi Suite v3.6.1, Data Standard v4.0: Student Academic Records

November 2024

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Summary

This educational entity represents the cumulative record of academic achievement for a student.

Object Triggering Logic

Action	Business Rule(s)

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Post	Report a record for each unique Ed-Fi termDescriptor in the current configuration year in which the student has a transcript record **OR** When the student has a Diploma Type and Diploma Date in the current configuration year.

Report a record for each unique Ed-Fi termDescriptor in the current configuration year in which the student has a transcript record **OR** When the student has a Diploma Type and Diploma Date in the current configuration year.

- Do not report a record if the any of the following exclusions are present:
  - Enrollment State Exclude
  - Enrollment No Show
  - Enrollment Grade Exclude from State Reporting
  - Calendar Exclude
  - School Exclude
  - Transcript's Score is NULL
- The transcript can be posted through the Transcript Post tool or manually.
- Students in Grades K-8 report Student Academic Records **without the need for a transcript**.
  - These are automatically created based on the termDescriptors the associated Sections are in.
- When the Ed-Fi termDescriptor cannot be determined on a Transcript record, provide an error with the following message: "Could not identify a valid term type for transcript record."
- If a student has an enrollment with a Local Start Status that is mapped to the State Start Status of *999: Past Year School Graduate* **AND** that enrollment is marked as State Exclude, perform a POST regardless of if the Diploma Date is within the configured year.

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Delete /Post Put	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. • When the following transcript-related information is updated: 　○ Transcript ID (New Transcript Entry) 　○ Score 　○ Ed-Fi Term Override 　○ End Year 　○ GPA Value 　○ GPA Weight 　○ School Number 　○ Unweighted GPA Value 　○ Weighted GPA Value 　○ Credits Attempted 　○ Credits Earned • When the following enrollment-related information is updated: 　○ End Status 　○ Start Date 　○ End Date 　○ Grade 　○ No Show 　○ State Exclude • When the following graduation-related information is updated: 　○ Diploma Date 　○ Diploma Period 　○ Diploma Type 　○ Employability Skills 　○ Local Pathway 　○ Postsecondary-Ready Competencies 　○ Graduating School

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Delete	- When all transcript records related to the termDescriptor being reported are deleted. - When all sections are now somehow excluded for a student in grades K-8 where the Student Academic Record was reporting solely from the K-8 logic. - When the diploma date / diploma type is removed and the student has no transcript records associated to the termDescriptor being reported. - When all of the reportable enrollments for the student are deleted.

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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools (Pre-populated)
- Students

Dependent Resources (Downstream)

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

- Course Transcripts

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 Templa Logi (✓ / ✗ EXT
1	**termDescriptor** (*string*)	*The term for the session during the school year.*	M	N/A	N/A	✗

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- When reporting Transcript records posted using the Transcript Post tool (have an associated scoreID):
  - Report the Ed-Fi Code mapped to the value selected for **Ed-Fi Term Type** on the transcript entry.
  - If Transcript Ed-Fi Term Type is NULL, report the Ed-Fi Code mapped to the value selected for the Section **Ed-Fi Term Descriptor Override** (Sessions Resource Preferences override mapping).
  - If Section Ed-Fi Term Descriptor Override is NULL, report the Ed-Fi Code mapped to the value selected for the Course **Ed-Fi Term Descriptor Override** (Sessions Resource Preferences override mapping).
  - If the Course Ed-Fi Term Descriptor Override is NULL, report the Ed-Fi Code mapped to the Term the course is being offered in (Sessions Resource Preferences main mapping).
  - If the Ed-Fi Code cannot be determined for the Term, report the Ed-Fi Code mapped to the **Ed-Fi Transcript Term Override** (Student Academic Records Resource Preferences).
  - If no Ed-Fi Code can be determined, provide the error: "Could not identify a valid term type for transcript record."

- When reporting Transcript records that are manually added (no scoreID):
  - Report the Ed-Fi Code mapped to the value selected for **Ed-Fi Term Type** on the transcript record.
  - If the transcript Ed-Fi Term Type is NULL, report the Ed-Fi Code mapped to the **Ed-Fi Transcript Term Override** (Student Academic Records Resource Preferences).
  - If no Ed-Fi Code can be determined, provide the error: "Could not identify a valid term type for transcript record."
- When reporting from a Graduation Record because there are no Course Transcript records for the student:
  - Report the Ed-Fi Code mapped to the term in Sessions Resource Preferences that the Diploma Date overlaps.
  - If the Diploma Date does not overlap a term, or the term does not have an Ed-Fi Code mapped, use the Ed-Fi Code mapped to the term with the latest end date.
  - If there is more than one term schedule, reports from the Primary term schedule.
  - If the Diploma Date overlaps more than one term, report the value from the term with the highest termID.

		• When reporting for student's whose enrollment has a Local Start Status that is mapped to a State Start Status of *999: Past School Year Graduate*: ○ Report the Ed-Fi Code mapped to the earliest term in the school/calendar the student's enrollment is associated with.					
2	**educationOrganizationReference** (*reference*)	*A reference to the Local Education Agencies resource associated with the Student Academic Record being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • educationOrganizationId = **10 + State District Number + State School Number**	M	District Information School Information	District.number School.number	✓
3	**schoolYearTypeReference** (*reference*)	*A reference to the School Years resource associated with the Student Academic Record being reported.* Reports the **End Year** of the associated School Year selected.	M	N/A	N/A	✓
4	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student Academic Record being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✓

5	cumulativeAttemptedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Attempted** for all time. • Reports **0** if the student does not have any Credits Attempted. • Does not report if the Student Academic Record is reporting only from Graduation information.	M	Transcript	TranscriptCredit.creditsAttempted	⊗
6	cumulativeEarnedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Earned** for all time. • Reports **0** if the student does not have any Credits Earned. • Does not report if the Student Academic Record is reporting only from Graduation information.	M	Transcript	TranscriptCredit.creditsEarned	⊗
7	diplomas (*array*)	*An unordered collection of studentAcademicRecordDiplomas. Diploma(s) earned by the student.* Reports the below data element in an array when the student has a Diploma Date and a Diploma Type on their Graduation record:	C	Graduation	Graduation.dimplomaType Graduation.diplomaDate	⊗

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- diplomaTypeDescriptor
  - Reports **Certificate of completion** if *Diploma Type* is set to *06: Certificate of Completion (IEP program Completed)*.
  - Reports **Certificate of attendance** if *Diploma Type* is set to *07: Course Completion*.
  - Reports **Alternate Diploma** if *Diploma Type* is set to *23: Alternate Diploma*.
  - Reports **Regular Diploma** if *Diploma Type* is set to any other code than 06, 07, or 23.
- diplomaAwardDate
  - Reports **Diploma Date**.
- diplomaLevelDescriptor
  - Reports the Ed-Fi Code mapped to the value selected for **Diploma Type**.
- The following data elements do not report:
  - achievementCategoryDescriptor
  - achievementCategorySystem
  - achievementTitle
  - criteria
  - criteriaURL
  - cteCompleter
  - diplomaAwardExpiresDate
  - diplomaDescription
  - evidenceStatement
  - imageURL
  - issuerName
  - issuerOriginURL

Additional Logic:

		• If the Graduating School field is populated, this array will only POST under that school.
		   ○ This is for situations where the student has enrollments in different schools and the "graduating school" needs to be specified.
		• When reporting for student's whose enrollment has a Local Start Status that is mapped to a State Start Status of *999: Past School Year Graduate*:
		   ○ Always report the diplomas array, regardless of the Scope Year their Diploma Date falls under.				

8	gradePointAverages (*array*)	*An unordered collection of studentAcademicRecordGradePointAverages. The grade point average for an individual computed as the grade points earned divided by the number of credits attempted.* Report the following array elements for each descriptor (per Array Data Elements section below) • gradePointAverageTypeDescriptor • gradePointAverageValue • isCumulative • maxGradePointAverage	C	Credit Summary		⊗
9	recognitions (*array*)	*An unordered collection of studentAcademicRecordRecognitions. Recognitions given to the student for accomplishments in a co-curricular or extracurricular activity.*	M	Graduation	Graduation.diplomaDate Graduation.employabilitySkills	⊗

Reports the below data elements in an array when the student is given an Employability Skills or Postsecondary-Ready Competencies value that is mapped to an Ed-Fi Code. Reports a separate record in the array for each reportable instance:

- recognitionAwareDate
  - Reports the **Diploma Date**.
- recognitionTypeDescriptor
  - Reports **Employability Skills** (Hard-Coded) if reporting from the Employability Skills field.
  - Reports **Post-Secondary Competencies** (Hard-Coded) if reporting from the Postsecondary-Ready Competencies field.
- achievementCategoryDescriptor
  - Reports the Ed-Fi Code mapped to the value selected for **Employability Skills** or **Postsecondary-Ready Competencies**.
- achievementCategorySystem
  - Reports the **Local Pathway**.
    - This is only reported when reporting from Postsecondary-Ready Competencies when it has a value of *09: Locally Created Pathway*.
    - 10000 = Not Applicable; Locally Created Pathway not utilized.
    - 10001 through 99999 = Approved Locally Created Pathway.
    - The approved Locally Created Pathways can be found on the IDOE site.

Graduation. postsecondaryReadyCompetencies

Graduation.localPathway

10	sessionAttemptedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Attempted** for the session (term) reporting. • Reports **0** if the student does not have any Credits Attempted. • Does not report if the Student Academic Record is reporting only from Graduation information.	M	Transcript	TranscriptCredit.creditsAttempted	❌
11	sessionEarnedCredits (*number*)	*The value of credits or units of value awarded for the completion of a course.* Reports the total number of **Credits Earned** for the session (term) reporting.. • Reports **0** if the student does not have any Credits Earned. • Does not report if the Student Academic Record is reporting only from Graduation information.	M	Transcript	TranscriptCredit.creditsEarned	❌
12	academicHonors	This is optional, does not report.	O	N/A	N/A	N/A
13	classRanking	This is optional, does not report.	O	N/A	N/A	N/A
14	cumulativeAttemptedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
15	cumulativeAttemptedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
16	cumulativeEarnedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
17	cumulativeEarnedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
18	cumulativeGradePointAverage	This is optional, does not report.	O	N/A	N/A	N/A

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19	cumulativeGradePointsEarned	This is optional, does not report.	O	N/A	N/A	N/A
20	gradeValueQualifier	This is optional, does not report.	O	N/A	N/A	N/A
21	projectedGraduationDate	This is optional, does not report.	O	N/A	N/A	N/A
22	reportCards	This is optional, does not report.	O	N/A	N/A	N/A
23	sessionAttemptedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
24	sessionAttemptedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
25	sessionEarnedCreditConversion	This is optional, does not report.	O	N/A	N/A	N/A
26	sessionEarnedCreditTypeDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
27	sessionGradePointAverage	This is optional, does not report.	O	N/A	N/A	N/A
28	sessionGradePointsEarned	This is optional, does not report.	O	N/A	N/A	N/A

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Appendix

Array Data Elements
Grade Point Averages

#	Data Element Label	Business Requirement	Business Rule	M, C, O	Data Source UI Path	Database Field	Format
AE10	gradePointAverageTypeDescriptor	The system used for calculating the grade point average for an individual.	Report each gradePointAverageType descriptor (hard coded): • **Unweighted**: uri://ed-fi.org /GradePointAverageTypeDescriptor#Unweighted • **Weighted:** uri://ed-fi.org /GradePointAverageTypeDescriptor#Weighted	M			string

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| AE20 | gradePointAverageValue | The value of the grade points earned divided by the number of credits attempted. | Report as follows for each gradePointAverageTypeDescriptor:

• **Unweighted**:
  ○ Calculate unweighted gradePointAverageValue:
  ○ For each Transcript Course Record where the GPA weight is >0,
    ▪ Multiply its (unweighted) GPA Value * GPA Weight
    ▪ Sum values
    ▪ Divide result by the sum of the GPA weights for all scores
      • Formula: Sum (Unweighted GPA Value * GPA Weight)/ Sum (GPA Weight)
  ○ Note: If the Transcript Course GPA weight is 0 or null, do not include in the calculation.

• **Weighted:**
  ○ Calculate weighted gradePointAverageValue:
  ○ For each Transcript Course Record where the GPA weight is >0,
    ▪ Multiply its (weighted) GPA Value * GPA Weight
    ▪ Sum values
    ▪ Divide result by the sum of the GPA weights for all scores
      • Formula: Sum (Weighted GPA Value * GPA Weight)/ Sum (GPA Weight)
  ○ Note: If the Transcript Course GPA weight is 0 or null, do not include in the calculation. | M | | | double |

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AE30	isCumulative	Indicator of where or not the Grade Point Average is cumulative	Report as follows for each gradePointAverageTypeDescriptor: • **Unweighted**: '1' (True) - hard code value • **Weighted:** '1' (True) - hard code value	C			boolean
AE40	maxGradePointAverageValue	The maximum value for the grade point average.	Report as follows for each gradePointAverageTypeDescriptor: • **Unweighted**: ○ Calculate maximum unweighted gradePointAverageValue: ○ For each Transcript Course Record where the GPA weight is >0, ■ Multiply its maximum unweighted GPA value * GPA Weight ■ Sum values ■ Divide the result by sum of GPA weights for all scores • Formula: Sum (Unweighted GPA Max Value * GPA Weight)/ Sum (GPA Weight) • **Weighted:** ○ Calculate maximum weighted gradePointAverageValue: ○ For each Transcript Course Record where the GPA weight is >0, ■ Multiply its maximum weighted GPA value * GPA Weight ■ Sum values ■ Divide result by sum of GPA weights for all scores • Formula: Sum (Weighted GPA Max Value * GPA Weight)/ Sum (GPA Weight)	C			double

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Type/Descriptors
Term Descriptor (Note combination of both ed-fi and doe namespaces)

Code Value	Description	Namespace	Short Description
Summer Semester	Summer Semester	uri://ed-fi.org/TermDescriptor	Summer Semester
Fall Semester	Fall Semester	uri://ed-fi.org/TermDescriptor	Fall Semester
Spring Semester	Spring Semester	uri://ed-fi.org/TermDescriptor	Spring Semester
Third Quarter	Third Quarter	uri://ed-fi.org/TermDescriptor	Third Quarter
Second Quarter	Second Quarter	uri://ed-fi.org/TermDescriptor	Second Quarter
First Quarter	First Quarter	uri://ed-fi.org/TermDescriptor	First Quarter
Fourth Quarter	Fourth Quarter	uri://ed-fi.org/TermDescriptor	Fourth Quarter
First Trimester	First Trimester	uri://ed-fi.org/TermDescriptor	First Trimester
MiniTerm	MiniTerm	uri://ed-fi.org/TermDescriptor	MiniTerm
Third Trimester	Third Trimester	uri://ed-fi.org/TermDescriptor	Third Trimester
Second Trimester	Second Trimester	uri://ed-fi.org/TermDescriptor	Second Trimester
Year Round	Year Round	uri://ed-fi.org/TermDescriptor	Year Round
Other	Other	uri://ed-fi.org/TermDescriptor	Other
MiniTerm One	MiniTerm One	uri://doe.in.gov/TermDescriptor	MiniTerm One
MiniTerm Two	MiniTerm Two	uri://doe.in.gov/TermDescriptor	MiniTerm Two
MiniTerm Three	MiniTerm Three	uri://doe.in.gov/TermDescriptor	MiniTerm Three
MiniTerm Four	MiniTerm Four	uri://doe.in.gov/TermDescriptor	MiniTerm Four
MiniTerm Five	MiniTerm Five	uri://doe.in.gov/TermDescriptor	MiniTerm Five

MiniTerm Six	MiniTerm Six	uri://doe.in.gov/TermDescriptor	MiniTerm Six

Diploma Level Descriptor

Code Value	Description	Namespace	Short Description
01	General (Passed GQE or met Graduation Pathway)	uri://doe.in.gov /DiplomaLevelDescriptor	General (Passed GQE or met Graduation Pathway)
02	Core 40 with Academic Honors (Passed GQE or met Graduation Pathway)	uri://doe.in.gov /DiplomaLevelDescriptor	Core 40 with Academic Honors (Passed GQE or met Graduation Pathway)
03	Core 40 only (Passed GQE or met Graduation Pathway)	uri://doe.in.gov /DiplomaLevelDescriptor	Core 40 only (Passed GQE or met Graduation Pathway)
04	General (Evidence-based waiver)	uri://doe.in.gov /DiplomaLevelDescriptor	General (Evidence-based waiver)
06	Certificate of Completion (IEP program Completed)	uri://doe.in.gov /DiplomaLevelDescriptor	Certificate of Completion (IEP program Completed)
07	Course Completion	uri://doe.in.gov /DiplomaLevelDescriptor	Course Completion
09	Core 40 with Technical Honors (Passed GQE or met Graduation Pathway)	uri://doe.in.gov /DiplomaLevelDescriptor	Core 40 with Technical Honors (Passed GQE or met Graduation Pathway)
11	General (Work Readiness Waiver)	uri://doe.in.gov /DiplomaLevelDescriptor	General (Work Readiness Waiver)
12	International Baccalaureate Diploma	uri://doe.in.gov /DiplomaLevelDescriptor	International Baccalaureate Diploma
13	Core 40 Only (Evidence-based waiver or Waiver from Postsecondary Readiness Competency Requirements for Graduation Pathways)	uri://doe.in.gov /DiplomaLevelDescriptor	Core 40 Only (Evidence-based waiver or Waiver from PRC Requirements for GP)

14	Core 40 with Academic Honors (Evidence-based waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Academic Honors (Evidence-based waiver)
15	Core 40 with Technical Honors (Evidence-based waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Technical Honors (Evidence-based waiver)
16	Core 40 with Academic and Technical Honors (Passed GQE or met Graduation Pathway)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Academic and Technical Honors (Passed GQE or met GP)
18	Core 40 with Academic and Technical Honors (Evidence-based waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Academic and Technical Honors (Evidence-based waiver)
19	Core 40 Only (Work-Readiness Waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 Only (Work-Readiness Waiver)
20	Core 40 with Academic Honors (Work-Readiness Waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Academic Honors (Work-Readiness Waiver)
21	Core 40 with Technical Honors (Work-Readiness Waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Technical Honors (Work-Readiness Waiver)
22	Core 40 with Academic & Technical Honors (Work-Readiness Waiver)	uri://doe.in.gov/DiplomaLevelDescriptor	Core 40 with Academic and Technical Honors (Work-Readiness Waiver)
23	Alternate Diploma	uri://doe.in.gov/DiplomaLevelDescriptor	Alternate Diploma

Achievement Category Descriptor

Code Value	Description	Namespace	Short Description
ACT - College Ready benchmarks	ACT - College Ready benchmarks	uri://doe.in.gov/AchievementCategoryDescriptor	ACT - College Ready benchmarks
AP/IB/DC/Cambridge Intl courses or CLEP Exam	AP/IB/Dual Credit/Cambridge International courses or CLEP Exam	uri://doe.in.gov/AchievementCategoryDescriptor	AP/IB/Dual Credit/Cambridge International courses or CLEP Exam

ASVAB	ASVAB	uri://doe.in.gov /AchievementCategoryDescriptor	ASVAB
Career-Technical Education Concentrator	Career-Technical Education Concentrator	uri://doe.in.gov /AchievementCategoryDescriptor	Career-Technical Education Concentrator
Honors Diploma	Honors Diploma	uri://doe.in.gov /AchievementCategoryDescriptor	Honors Diploma
Locally Created Pathway	Locally Created Pathway	uri://doe.in.gov /AchievementCategoryDescriptor	Locally Created Pathway
NA or Did Not Demonstrate	NA or Did Not Demonstrate	uri://doe.in.gov /AchievementCategoryDescriptor	NA or Did Not Demonstrate
Project-Based Learning Experience	Project-Based Learning Experience	uri://doe.in.gov /AchievementCategoryDescriptor	Project-Based Learning Experience
SAT - College Ready benchmarks	SAT - College Ready benchmarks	uri://doe.in.gov /AchievementCategoryDescriptor	SAT - College Ready benchmarks
Service-Based Learning Experience	Service-Based Learning Experience	uri://doe.in.gov /AchievementCategoryDescriptor	Service-Based Learning Experience
State/Federal/Industry recognized Apprenticeship	State, Federal, or Industry recognized Apprenticeship	uri://doe.in.gov /AchievementCategoryDescriptor	State, Federal, or Industry recognized Apprenticeship
State/Industry recognized Cred or Certification	State and Industry recognized Credential or Certification	uri://doe.in.gov /AchievementCategoryDescriptor	State and Industry recognized Credential or Certification
Waiver Postsecondary Readiness Competency Reqs	Waiver from Postsecondary Readiness Competency Requirements	uri://doe.in.gov /AchievementCategoryDescriptor	Waiver from Postsecondary Readiness Competency Requirements
Work-Based Learning Experience	Work-Based Learning Experience	uri://doe.in.gov /AchievementCategoryDescriptor	Work-Based Learning Experience
Alternate Assessment for Alternate Diploma	Alternate Assessment for Alternate Diploma	uri://doe.in.gov /AchievementCategoryDescriptor	Alternate Assessment for Alternate Diploma

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Grade Point Average Type Descriptor

Code Value	Description	Namespace	Short Description
Weighted	Weighted	uri://ed-fi.org/GradePointAverageTypeDescriptor	Weighted
Unweighted	Unweighted	uri://ed-fi.org/GradePointAverageTypeDescriptor	Unweighted

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