

## Component Description

The Student Course Component is used to connect teacher and student data via the courses students take during the school year. These data include the student's completion status for each course and in some cases, includes the final grade. Beginning in Fall 2014, TSDL is an ongoing full-year collection. The reported data reflecting the student's performance in classes taken throughout the current academic year can be reported as the course/term ends as well as the end of the school year. The Student Course Component may be reported as many times as necessary to report each course taken by a student during a school year.

## Document Contents

<b>Schema</b>	Contains the component characteristic names, descriptions, and specifications (Excel Sheet 2)
<b>List of Values</b>	Contains the list of allowed values for all characteristics of a "List of Values" datatype (Excel Sheet 3)
<b>Staging Area Business Rule Validations</b>	Contains the list of business rule validations, grouped by characteristic, that apply to this component (Excel Sheet 4)
<b>Version History</b>	Contains a history of updates made to the business rule validations in this school year (Excel Sheet 5)
<b>User Guide</b>	Contains references and support for using this document (Excel Sheet 6)

## Collection Matrix

Collection Name	Component Status
CEPI Internal Request for UIC	Not Allowed
Early Childhood EOP	Not Allowed
Early Childhood Fall	Not Allowed
Early Childhood Spring	Not Allowed
EOY 2018 General Collection	Not Allowed
Fall 2017 General Collection	Not Allowed
IHE Request for UIC	Not Allowed
Request for UIC	Not Allowed
Spring 2018 General Collection	Not Allowed
Student Record Maintenance	Not Allowed
Teacher Student Data Link	Required

Schema

Characteristic Name	Characteristic Description	Data Type	Min Length	Max Length	Min Value	Max Value	Decimal Positions	Is Multi Valued?	Required?
SubjectAreaCode	This is the two-digit code for the subject area of the course.  Specification Refer to Collection Details Manual for list of values.	List of Values (choose from list)						False	True
CourseIdentifierCode	The 3 digit course identifier code for the course in which the student is participating. (from the NCES Secondary School Course Classification System or NCES Prior to Secondary School Course Classification System)	Numeric Text (can have leading zeros)	3	3				False	False
LocalCourseId	The course identification code assigned by the educating entity. The purpose is to identify a course.	Text (free form)	1	250				False	True
LocalCourseTitle	The course name assigned by the educating entity.	Text (free form)	1	250				False	True
CourseSectionID	An additional code assigned by the educating entity that when combined with the LocalCourseId uniquely identifies a particular class. Required when the Local Course ID alone does not uniquely identify a course.	Text (free form)	1	20				False	False
MSIXCourseSectionID	This characteristic is required when reporting migrant students by educating entities when the Local Course ID cannot uniquely identify a given course.	List of Values (choose from list)						False	False
CourseType	The code best representing the level and rigor of the instruction provided throughout the reported course.  Code 07 is to be used for college instructed courses for which the student will receive high school credit. The student may be participating in an Early/Middle College program or a dual enrollment program.	List of Values (choose from list)						False	True
AcademicYear	The academic year in which the student last attended the course (e.g. 2017-2018).	List of Values (choose from list)						False	False
CreditsGranted	The amount of credits granted to the student in Carnegie units for the course or a section of a course (e.g., 1.0, .50, .33, .25, .20). [A Carnegie unit is a measure of "seat time" rather than a measure of attainment of the course objectives.]	Decimal Number			0.00	9.99	2	False	False

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CourseGrade	The grade the student received for completing the course. These should be board approved grades. The grade reported is that as would be reported on the academic record for the course.  If a course for a student is reported on his/her academic record, the course and student information is required to be submitted in TSDL; regardless of whether or not a course grade is reported on the academic record.	Text (free form)	1	25				False	False
CompletionStatus	The student's standing for this course when the student is no longer a participant.	List of Values (choose from list)						False	True
MSIXClockHours	This characteristic is required for migrant students whose courses have not been completed (or credit granted). The number of clock hours to date that the student has completed must be reported.	Whole Number (integer)			0	600		False	False
College Credit	The amount of credit hours associated with the course. Report a number from 0 to 10 representing the number of credits assigned to each post-secondary (college) level course the student attempted.	Whole Number (integer)			0	10		False	False
Teacher of Record PIC	The Personnel Identification Code (PIC), as assigned in the Registry of Educational Personnel (REP), for each teacher responsible for some or all of the instruction of this course.  A maximum of 3 PICs per student and course may be reported.	Whole Number (integer)						True	False
Virtual Method	This field indicates the type of instruction the student is receiving via virtual learning. This method could be blended learning, digital learning or online course.	List of Values (choose from list)						False	False
Virtual Course Mentor PIC	The Personnel Identification Code (PIC), as assigned in the Registry of Educational Personnel (REP), for each teacher responsible for mentoring this course.	Whole Number (integer)						True	False

List of Values

SubjectAreaCode	
Code	Description
00	State Approved CTE Course
01	English language and literature
02	Mathematics
03	Life and Physical Sciences
04	Social Sciences and History
05	Fine and Performing Arts
06	Foreign language and Literature
07	Religious Education and Theology
08	Physical, Health and Safety Education
09	Military Science
10	Computer and Information Sciences
11	Communication and Audio/Visual Technology
12	Business and marketing
13	Manufacturing
14	Health Care Sciences
15	Public, Protective, and Government Service
16	Hospitality and Tourism
17	Architecture and Construction
18	Agriculture, Food and natural Resources
19	Human Services
20	Transportation, Distribution and Logistics
21	Engineering and Technology
22	Miscellaneous

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51	English Language and Literature
52	Mathematics
53	Life and Physical Sciences
54	Social Sciences and History
55	Fine and Performing Arts
56	Foreign Language and Literature
57	Religious Education and Theology
58	Physical, Health and Safety Education
60	Computer and Information Sciences
61	Communication and Audio/Visual Technology
62	Business and marketing
63	Manufacturing
64	Health Care Sciences
65	Public, Protective, and Government Service
66	Hospitality and Tourism
67	Architecture and Construction
68	Agriculture, Food and natural Resources
69	Human Services
70	Transportation, Distribution and Logistics
71	Engineering and Technology
72	Miscellaneous
73	Nonsubject Specific

<b>MSIXCourseSectionID</b>	
<i>Code</i>	<i>Description</i>
01	Full Year
02	Section A – The first of two equal segments into which the course is divided.

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03	Section B – the second of two equal segments into which the course is divided.
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CourseType	
Code	Description
00	Other
01	Regular
02	Honors
03	Pre-advanced
04	Advanced Placement
05	International Baccalaureate
06	Not Applicable
07	Dual Enrollment
10	64b Dual/Concurrent Enrollment Course

AcademicYear	
Code	Description
2016-2017	SY2016-2017
2017-2018	SY2017-2018

CompletionStatus	
Code	Description
AU	Audited (no credit issued)
CF	Completed/Failed
CP	Completed/Passed
CS	Completed/Special Ed Only
ER	Submitted in Error

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I	Incomplete
OE	Ongoing Enrolled
TO	Tested Out
WE	Withdrawn/Exited
WF	Withdrawn/Failing
WP	Withdrawn/Passing

Virtual Method	
<i>Code</i>	<i>Description</i>
BL	Blended Learning
DL	Digital Learning
NV	Not Virtual
OC	Online Course

Staging Area Business Rule Validations

Characteristic Name	Rule Number	Data Validation	Severity	Error/Warning Message
	252.1	The same [LocalCourseId], [CourseSectionId], and [AcademicYear] combination cannot be submitted in multiple [StudentCourse] components	1	A unique Student Course is defined by the values submitted for Local Course ID, Course Section ID, and Academic Year; multiple components cannot have the same Student Course.
CompletionStatus	252.410.4	If [CompletionStatus] = "CS" [SubjectAreaCode] must = "73" and [CourseIdentifierCode] must = "039"	1	When the Completion Status is "CS" in any TSDL collection, the Subject Area Code must = "73" and the Course Identifier Code must = "039"
	252.410.5	If [CompletionStatus] = "ER" [LocalCourseID] and [CourseSectionID] and [AcademicYear] and {SchoolDemographics}.[OperatingDistrictNumber] and {SchoolDemographics}.[SchoolFacilityNumber] must match a previously certified record for this student submitted within the current school year	1	When the Completion Status equals "ER" there must be a previously submitted matching record that was submitted within the current school year.
CourseIdentifierCode	252.173.1	If [SubjectAreaCode] <> "00" [CourseIdentifierCode] cannot be blank	1	Course Identifier Code is required for all Subject Area Codes except "00".
	252.173.2	[CourseIdentifierCode] must be a valid NCES Course ID that is associated with the Subject Area Code submitted.	1	Course Identifier code must be a NCES Course ID from the Secondary School Course Classification System or proposed Prior to Secondary School Course Classification System and must be associated with the Subject Area Code submitted.
CourseType	252.160.1	If [CourseType] = "02" or "03" {SchoolDemographics}.[GradeOrSetting] must be between "07" and "12"	1	When Course Type is "02" or "03", the student must be reported in grade 7-12.
	252.160.2	If [CourseType] = "04" or "07" or "10" {SchoolDemographics}.[GradeOrSetting] must be between "09" and "12"	1	When Course Type is "04" or "07" or "10", the student must be reported in grade 9-12.
	252.160.3	If [CourseType] = "10" [CollegeCredit] must be > 0	1	When the reported Course Type is "10", the College Credit characteristic must have a value greater than 0.
	252.160.4	If [CourseType] = "07" or "10" [CollegeCredit] and [CreditsGranted] must be submitted	1	When the reported Course Type is "07" or "10", the College Credit and Credits Granted characteristics must be submitted.
	252.160.5	If [CourseType] = "07" and the [CompletionStatus] = "CP" [CreditsGranted] or [CollegeCredit] must have a value > 0	1	When the reported Course Type is "07" and the Completion Status is Completed Passed, the College Credit or Credits Granted characteristic must have a value greater than "0".



CourseType	252.160.6	If [CourseType] = "10" and [CompletionStatus] = "CP" [CreditsGranted] must be > 0	1	If the reported Course Type is "10" and the course has been completed and passed, then the Credits Granted characteristic must have a value greater than "0".
MentorPIC	252.561.1	If [VirtualMethod] = "Not Virtual" or blank [MentorPIC] must be blank	1	You may only submit a Mentor PIC when a Virtual Method is selected.
	252.561.2	[MentorPIC] must be a valid PIC in REP Mentor PIC must be a valid PIC in REP.	1	The Mentor PIC submitted must be a valid PIC in the Registry of Educational Personnel (REP).
MSIXClockHours	252.604.1	If [CompletionStatus] <> "CF, "CP", "CS", "OE" or "ER" And [Migrant] = True Then [MSIX Clock Hours] must be submitted.	1	If a student is migrant and has not fully completed a course, then the total number of clock hours for that course must be submitted.
MSIXCourseSectionID	252.605.1	If [Migrant] = True then [MSIX Course Section ID] is required.	2	If a student is a migrant student, then the MSIX Course Section ID must be submitted.
PIC	NOTE	A maximum of 3 [PIC]s per student and course may be reported.		
	252.427.1	If [CourseType] <> "07" OR "10" OR [SubjectAreaCode] <> "00" [PIC] cannot be blank	1	A teacher PIC must be reported unless the student is reported with a Course Type of "Dual Enrollment/Early Middle College" (07) or "64b Dual/Concurrent Enrollment" (10), or unless the course is a state approved CTE course that is also being reported in CTEIS (Subject Area Code "00").
	252.427.2	[PIC] must be a valid number in REP	1	The PIC submitted must be a valid PIC in the Registry of Educational Personnel (REP).
	252.427.3	The same [PIC] may only be reported once per component	1	A PIC may only be used once per component.
SubjectAreaCode	252.171.1	If {SchoolDemographics}.[GradeOrSetting] = "00", "01", "02", "03", "04", "05", or "30" [SubjectAreaCode] must be a valid NCES Prior to Secondary SCED code	2	Unless the student is taking a course out of grade level, they should be reported with an NCES Prior to Secondary SCED code.
	252.171.2	If {SchoolDemographics}.[GradeOrSetting] = "06", "07", "08", or "14" [SubjectAreaCode] must be a valid NCES Prior to Secondary SCED Code OR NCES Secondary SCED Code	1	The Subject Area Code reported is not a valid NCES SCED code.

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SubjectAreaCode	252.171.3	If {SchoolDemographics}.[GradeOrSetting] = "09", "10", "11", or "12" [SubjectAreaCode] must be a valid Secondary SCED Code, "01"-"22"; OR [SubjectAreaCode] must = "00"; OR [SubjectAreaCode] must equal "73" and [CourseIdentifierCode] must = "039".	2	Unless the student is taking a course out of grade level, they should be reported with an NCES Secondary SCED code; or Subject Area Code "00"; or Subject Area Code "73" and Course Identifier Code "039".
VirtualMethod	252.560.1	If the {SchoolDemographics}.[SchoolFacilityNumber] has an educational setting in EEM of "FTVirtual" OR has a School of Excellence setting in EEM of "Cyber School" [VirtualMethod] must contain a value other than "NV" or blank unless the [CourseType] contains a value of "07" or "10"	1	Unless the student is taking a dual enrollment course using Course Type "07" or "10", then the Virtual Method must contain a value other than "NV" or blank when the school associated with this student is indicated as being a cyber school or a full time virtual school.

## Version History

Date	Description	Rule Affected	TFS Number	Updated By
9/22/2014	Added "ER" as an available completion status			singers
9/22/2014	New characteristic; data previously collected via the "Virtual Delivery" characteristic.			singers
3/24/2015	Added code "10" to the list of available values			schalkt
3/28/2017	Rule created to ensure that MSIX Clock Hours are entered for Migrant Students who do not fully complete a course.	252.604.1	78054	baryob
3/28/2017	Rule created to ensure MSIX Course Section ID is entered for Migrant students.	252.605.1	78263	baryob
3/28/2017	Updated spelling.	252.605.1		baryob
6/22/2017	Adding Course Type "07" to the rule so CollegeCredit is captured for all dual enrollment courses. This change was made due to SID data removal.	252.160.3	85385	baryob
6/23/2017	Removing this rule due to SID data removal	252.572.1	85385	baryob
6/23/2017	Updated to remove 100 % virtual and replace with Full Time Virtual to match the EEM changes.	252.560.1	85423	baryob
8/16/2017	Update BR to allow dual enrollment students.	252.560.1	88198	baryob
8/16/2017	Accidentally switched error to a warning.	252.604.1		baryob
8/16/2017	Switching rule to a warning per MDE	252.605.1		baryob
9/18/2017	Updated to include the current (2017-2018) and past (2016-2017) school years as options			baryob
12/12/2017	Increase max value from 4 to 10.			baryob
1/9/2018	New rule	252.160.4	11111	hansknechta
1/9/2018	update new rule	252.160.3	2222	hansknechta
1/9/2018	Update rule	252.160.6	1222	hansknechta
1/9/2018	updated rule	252.160.5	12345	hansknechta

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1/9/2018	update rule	252.604.1	3333	hansknechta
1/17/2018	Changed the wording in the validation message.	252.160.5		baryob
7/10/2018	Changing to a warning to align with documentation and to allow students to be reported with grade courses outside of their grade level.	252.171.1		baryob
7/10/2018	Changing to a warning to align with documentation and to allow students to be reported with grade courses outside of their grade level.	252.171.3		baryob
4/1/2020	New characteristic; data previously collected via the "Mentor Teacher" characteristic.			baryob

User Guide

Collection Matrix

**Component Status**

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Defines which collections the component may be submitted. The possible values are:

<u>Name</u>	<u>Description</u>
Required	This component must be submitted in this collection. If omitted in an upload, the file will be rejected upon upload.
Optional	This component is optional in this collection, but may be conditionally required due to validation rules.
Not Allowed	This component cannot be submitted in this collection. If included in an upload file, the file will be rejected upon upload.

Schema

**Characteristic Name**

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The name of the characteristic. This matches the name in the schema.

**Characteristic Description**

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A description of the characteristic and why the data is needed.

**Data Type**

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The system data type. The possible values are:

<u>Name</u>	<u>Classification</u>
Addresses (numbers, letters, #)	string
Date (only)	date
Date (year and month only) (YYYYMM)	string
Decimal Number	decimal
List of Values (choose from list)	string
Names (letters, apostrophe, commas, hyphens, periods)	string
Numeric Text (0-6) (can have leading zeros)	string
Numeric Text (can have leading zeros)	string
Text (free form)	string
Text (numbers and letters)	string

Whole Number (integer)	int
Yes / No (or True False, or Boolean)	boolean

**Min Length**

For characteristics of a "text" data type classification, this specifies the minimum character length

**Max Length**

For characteristics of a "text" data type classification, this specifies the maximum character length

**Min Value**

For characteristics of a "number" data type classification, this specifies the minimum character length

**Max Value**

For characteristics of a "number" data type classification, this specifies the maximum character length

**Decimal Positions**

For characteristics of a "number" data type, this specifies the number of digits allowed to the right of a decimal point.

**Is Multi Valued?**

TRUE indicates that this characteristic may be submitted multiple times in the same component; FALSE indicates that only one instance is allowed.

**Required?**

Y indicates this characteristic is required to be submitted as part of the schema; N indicates that is either optional at the schema level (but may be conditionally required due to validation rules)

**Validation Rules**

**Definitions & Guidance**

- Text surrounded by {} indicates that this is a component
- Text surrounded by [] indicates that this is a characteristic
- A Severity of "1" indicates that the validation is an error; a "2" indicates that it is a warning
- *CollectionName* refers to the value of the "CollectionName" attribute in the collection schema
- *AsOfDate* refers to one of two values:
  - For single-certified collections, it is the State-defined certification as of date for the collection
  - For ongoing certified collections, it is the value of the [AsOfDate] characteristic in the {StudentRecordMaintenance} component

**Version History**

**Notes**

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- TFS Number is used internally by CEPI for tracking purposes
- Each update to a validation or a wording change to the error/warning message will be noted here

Appendix A

Certain entity-related validations in MSDS are dependent on which collection is being submitted. The table below defines the dates or date ranges that are used in these validations. Validations that are dependent on this table are noted in the specific data validation; they will contain a reference to this appendix.

Collection	Type	Start Date	End Date
General collections	date	Certification As of Date	
Early Childhood collections	date range	Collection Open Date	Collection Close Date
Student Record Maintenance	date	As of Date (SRM component)	
Teacher Student Data Link *	date range	7/1/{AcademicYear start}	8/31/{School Year End}
	date range	7/1/{School Year Start}	8/31/{School Year End}
Early Roster	date range	7/1/{School Year Start}	6/30/{School Year End}
all other collections	date	Today's Date	

\* The TSDL collection will use the school year value submitted in the Academic Year characteristic, if it was submitted. If no value is found, the current school year values are used.