## 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

| | |
|---|---|
| **Schema** | Contains the component characteristic names, descriptions, and specifications (Excel Sheet 2) |
| **List of Values** | Contains the list of allowed values for all characteristics of a "List of Values" datatype (Excel Sheet 3) |
| **Staging Area Business Rule Validations** | Contains the list of business rule validations, grouped by characteristic, that apply to this component (Excel Sheet 4) |
| **Version History** | Contains a history of updates made to the business rule validations in this school year (Excel Sheet 5) |
| **User Guide** | 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 |
| Early Roster | Not Allowed |
| EOY 2024 General Collection | Not Allowed |
| Fall 2023 General Collection | Not Allowed |
| General Teacher Student Data Link | Required |
| IHE Request for UIC | Not Allowed |
| Migrant Teacher Student Data Link | Required |
| Nonpublic School Student Roster | Not Allowed |

| | |
|---|---|
| Request for UIC | Not Allowed |
| Request for UIC | Not Allowed |
| Spring 2024 General Collection | Not Allowed |
| Student Record Maintenance | Not Allowed |

## 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.<br><br>Specification<br>  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 Classisfication 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.<br><br>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 |
| Course Funding Program | A program through which a course is funded. | List of Values (choose from list) | | | | | | False | False |
| AcademicYear | The academic year in which the student last attended the course (e.g. 2023-2024). | 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 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 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.<br><br>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 participatant. | 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 25 representing the number of credits assigned to each post-secondary (college) level course the student attempted. | Decimal Number | | | 0.00 | 25.00 | 2 | 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.<br><br>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 | Visual and Performing Arts |
| 07 | Religious Education and Theology |
| 08 | Physical, Health and Safety Education |
| 09 | Military Science |
| 10 | Information Technology |
| 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 |
| 23 | Nonsubject Specific |

| 24 | World Languages |
|---|---|

## MSIXCourseSectionID

| Code | Description |
|---|---|
| 01 | Full Year |
| 02 | Section A – The first of two equal segments into which the course is divided. |
| 03 | Section B – the second of two equal segments into which the course is divided. |

## CourseType

| Code | Description |
|---|---|
| 00 | Other |
| 01 | Regular |
| 02 | Honors |
| 03 | Pre-advanced |
| 04 | Advanced Placement |
| 05 | International Baccalaureate |
| 06 | Not Applicable |
| 07 | Dual Enrollment |

## Course Funding Program

| Code | Description |
|---|---|
| 01 | Sec 23a Dropout Recovery |

## AcademicYear

| Code | Description |
|------|-------------|
| 2022-2023 | SY2022-2023 |
| 2023-2024 | SY2023-2024 |

## CompletionStatus

| Code | Description |
|------|-------------|
| AU | Audited (no credit issued) |
| CF | Completed/Failed |
| CP | Completed/Passed |
| CS | Completed/Special Ed Only |
| ER | Submitted in Error |
| I | Incomplete |
| OE | Ongoing Enrolled |
| TO | Tested Out |
| WE | Withdrawn/Exited |
| WF | Withdrawn/Failing |
| WP | Withdrawn/Passing |

## Virtual Method

| Code | Description |
|------|-------------|
| 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. |
| | 252.2 | If CollectionName = "GeneralTSDL" AND [GradeorSetting] = "9", "10", "11", or "12"<br>    [Migrant] must = False | 1 | A migrant student in grades 9-12 cannot be reported in the General TSDL Collection. Please report this student in the Migrant TSDL Collection. |
| | 252.3 | If CollectionName = "MigrantTSDL"<br>    [Migrant] must = True | 2 | If a student is reported in the Migrant TSDL Collection, then they must be a migrant student. |
| CompletionStatus | 252.410.5 | If [CompletionStatus] = "ER"<br>    [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. |
| | 252.410.6 | If [CompletionStatus] = "OE" or "ER"<br>    then [CollectionName] must be "MigrantTSDL" | 1 | If a student is reported in the General TSDL Collection, then they cannot be reported with a course that has a Completion Status of "OE" Ongoing Enrolled or "ER" Submitted in Error. |
| CourseFundingProgram | 252.647.1 | If [CourseFundingProgram] = "01"<br>    [CreditsGranted] must be submitted. | 1 | If Course Funding Program = "01" - Sec 23a Dropout Recovery, the Credits Granted characteristic must be submitted. |
| CourseIdentifierCode | 252.173.1 | If [SubjectAreaCode] <> "00"<br>    [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 Classisfication System and must be associated with the Subject Area Code submitted. |
| CourseType | 252.160.1 | If [CourseType] = "02" or "03"<br>    {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. |

| CourseType | 252.160.2 | If [CourseType] = "04" or "07"<br>{SchoolDemographics}.[GradeOrSetting] must be between "09" and "12" | 1 | When Course Type is "04" or "07", the student must be reported in grade 9-12. |
|---|---|---|---|---|
| | 252.160.4 | If [CourseType] = "07"<br>[CollegeCredit] and [CreditsGranted] must be submitted | 1 | When the reported Course Type is "07", the College Credit and Credits Granted characteristics must be submitted. |
| | 252.160.5 | If [CourseType] = "07" and the [CompletionStatus] = "CP"<br>[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". |
| MentorPIC | 252.561.1 | If [VirtualMethod] = "Not Virtual' or blank<br>[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<br>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<br>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<br>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 [SubjectAreaCode] <> "00"<br>[PIC} cannot be blank | 1 | A teacher PIC must be reported unless the student is reported with a Course Type of "Dual Enrollment" (07) 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. |

| 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" | 1 | Unless the student is taking a dual enrollment course using Course Type "07", 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 |
| 4/1/2020 | New characteristic; data previously collected via the "Mentor Teacher" characteristic. | | | baryob |
| 6/30/2020 | New characteristic. | | | baryob |
| 4/8/2022 | Change to Decimal Number. | | | baryob |
| 8/30/2022 | Updated to show most recent code descriptions. | | | baryob |
| 4/18/2023 | Updating for new school year (Academic Year updated) | | | baryob |

## User Guide

### Collection Matrix

#### Component Status

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

| Name | Description |
|------|-------------|
| 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 condtionally 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

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

#### Characteristic Description

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

#### Data Type

The system data type.  The possible values are:

| Name | Classification |
|------|----------------|
| 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 decmial 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**

- 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.