

## Section 3 - TREx XML Standards

### Overview

XML schemas function as models for describing the structure of the records being extracted and transmitted through TREx. This includes:

- the sequence in which elements appear;
- the interrelationship between different elements, including parent and child relationships and nesting levels; and
- the types of data that are contained in elements or attributes.

The *TREx Data Standards* manual provides information on the data elements, coded variables, and schema for use by the districts and vendors of local student information systems for the development and maintenance of the extract file process.

**Note:** *Similar to the TREx Data Standards, the TREx XSD will be updated and republished by TEA annually. Student Information System (SIS) vendors should support updates to the TREx XSD.*

### Edits and Validations

The TREx XML schema ensures that student data files from school districts adhere to a common structure and consist of valid elements and attributes. An XML extract file must be syntactically perfect, or it is rendered as unacceptable by an XML parser.

Restrictions control acceptable values for XML data elements. Restrictions on XML elements are called facets. In combination with an element's declared data type, restrictions enable the XSD validation process not only to validate the structure of the XML file but also to validate the data values contained within the file against its XML schema definition.

An example of a restriction to validate data commonly used in TREx is for a range of years. To define a rule for the ACADEMIC-YEAR data element so that the values fall within the range of 1957-2020, the TREx schema declares the restriction as:

```
<xs:element name="SchoolYear">
  <xs:simpleType>
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="1957"/>
      <xs:maxInclusive value="2020"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

The XML schema also enforces length restrictions for a given element by either an exact length, minimum length, or maximum length. Patterns represent another restriction on data elements if so defined.

### TReX Field Edit Overview

Although the districts/campuses are provided with a manual capability to create a student record or transcript in TReX, most districts/campuses submit data in an XML-based extract file. The file is referred to as an extract file because it is created through a vendor-supported process that extracts data from a district's student information system. The extracted data must be consistent with the TReX XML Schema Definition (XSD).

Prior to transmitting the extract file, TReX verifies the structure of the file against the XSD. In addition, the system verifies the contents of the file against the declared data types and restrictions defined for each element in the TReX XSD for each simple type element. The data types and restrictions defined with the TReX XSD constitute the TReX field edits.

### TReX Field Edit Restrictions

As previously described in this section, restrictions control acceptable values for XML data elements. Restrictions on XML elements are called facets. In combination with an element's declared data type, restrictions enable the TReX XSD validation process not only to validate the structure of the XML file but also to validate the data values contained within the file against its XML schema definition. Many simple type elements within the TReX XSD have a restriction that limits the domain of acceptable values.

TReX does not transmit extract files improperly structured or containing unacceptable values.

### Available TReX XSD Restrictions

| Restriction  | Description  |
|--------------|--|
| enumeration  | Specifies a list of acceptable values.   |
| minInclusive | Specifies the lower bounds for numeric values. The value must be greater than or equal to this value.    |
| maxInclusive | Specifies the upper bounds for numeric values. The value must be less than this value.                   |
| minLength    | Specifies the minimum number of characters or list items allowed. Must be equal to or greater than zero. |
| maxLength    | Specifies the maximum number of characters or list items allowed. Must be equal to or greater than zero. |
| minOccurs    | Specifies minimum number of occurrences allowed.   |
| maxOccurs    | Specifies maximum number of occurrences allowed.   |
| pattern      | Defines the exact sequence of characters that are acceptable.  |
| restriction  | Defines the type of data element (e.g. string, integer, etc.).   |
| totalDigits  | Specifies the exact number of digits permitted. (Value must be greater than zero.)                       |
| whiteSpace   | Specifies the use of white space. Denotes line feeds, tabs, spaces, and carriage returns.                |

## Context Edit Overview

TReX uses context edits to verify data elements against the rules set out in the XSD. Each context edit is traced to its associated Edit Number, a description of which follows.

## Context Edit Descriptions

Following is a list of TReX Context Edits.

| Edit # | Element XML Name                | Edit Rule   |
|--------|---------------------------------|---|
| T001   | StudentID                       | The first character of StudentID must be "S" or "0"- "8".   |
| T002   | StudentID                       | Each character of StudentID must not be the same number.  |
| T003   | StudentID                       | The first three characters of StudentID must not be "000".  |
| T004   | StudentID                       | If first character of StudentID is not an "S", the fourth and fifth characters must not be "00".  |
| T005   | StudentID                       | If first character of StudentID is not an "S", the last four characters must not be "0000".   |
| T006   | FirstName, MiddleName, LastName | The FirstName, MiddleName, and/or LastName must only contain the following characters: <ul style="list-style-type: none"> <li>• a-z or A-Z</li> <li>• 0-9</li> <li>• Apostrophe</li> <li>• Hyphen</li> <li>• Space character</li> </ul> |
| T007   | FirstName, MiddleName, LastName | Name must not contain only apostrophes.   |
| T008   | FirstName, MiddleName, LastName | Name must not contain only hyphens.   |
| T009   | FirstName, LastName             | Name must not contain only spaces.  |
| T010   | FirstName, MiddleName, LastName | Data elements cannot be repeated as PersonType (student).   |
| T011   | FirstName, MiddleName, LastName | Data elements can be repeated as ParentType (parent) up to 9 times.   |
| T012   | DistrictID                      | The DistrictID contained within the CampusID must match an entry registered with the TEA.   |
| T013   | CampusID                        | The CampusID must match an entity registered with TEA.  |
| T014   | EntryDate                       | The EntryDate must not be greater than the file submission date.  |
| T015   | WithdrawDate                    | WithdrawDate must not be greater than the current date.   |
| T016   | WithdrawDate                    | WithdrawDate must be greater than ExitDate by at least one day.   |
| T017   | ExitDate                        | ExitDate must be one day less than (earlier) than WithdrawDate.   |
| T018   | WithdrawDate, WithdrawReason    | If a student in grades 7-12 has withdrawn from school, both fields are required. For grades up to and   |

| Edit # | Element XML Name   | Edit Rule  |
|--------|--|--|
|        |  | including grade 6, Withdraw Reason is not required for students who have withdrawn from school, but Withdraw Date is required and entered. |
| T019   | DisciplineActionDate   | Must be greater than date of extract file creation.  |
| T020   | DisciplineActionDate,<br>DisciplineActionCode,<br>DisciplineActionReason | If data are present for any single element, all other elements must include data.  |
| T021   | DisciplineActionDate,<br>DisciplineActionCode,<br>DisciplineActionReason | Elements can be repeated on student record if at least one element contains different data from other set.                                 |
| T022   | TestScore, TestDate, TestCode  | If TestDate (Assessment Date) is present, data are required in TestScore (Assessment Score) and/or TestCode (Assessment Score Code).       |
| T023   | GradeRetained  | Must be less than Grade 9.   |
| T024   | CertificateDate  | Must be blank if date exists in GraduationDate element.  |
| T025   | GraduationDate   | Must be blank if date exists in CertificateDate element.   |
| T027   | ImmunizationDate   | If present, data are required for ImmunizationCode.  |
| T028   | CreditCampus   | CreditCampus must match an entity registered with TEA.   |

## Data and File Requirements

The TREx extracted data are stored in an XML-based file consistent with the TREx XML Schema Definition (XSD) and must follow the XSD standards to be transmitted by TREx.

### Rules for XML Schema

While school districts and campuses are responsible for the accuracy of the data transmitted through TREx, TREx verifies the contents of the file against the declared data types and restrictions defined for each element in the TREx XSD. The following business rules apply to XML schemas and the XSD validation process:

- The XML Schema supports a number of built-in data types (e.g., date). When an XML element has a defined data type, a restriction is placed on the element content.
- The XML Schema supports restrictions (edits). In conjunction with the element's declared data type, restrictions are used to control acceptable values for XML elements.
- Declared data types and restrictions enable the XSD validation process.
- The client-side XSD validation process is used to validate the XML file structure and data values against the schema definition.
- If the client-side validation fails, TREx does not transfer the extract file.

*Note: For graphical representations of the TREx XSD, reference Appendix C.*

### TReX XSD Data Types and Restrictions

Following are the TReX data types and restrictions. Restrictions control acceptable values for XML elements. Restrictions used in the XSD validation process validate both the structure of the XML file and the data values against the XML Schema Definition.

| Element Name                     | XML Name        | Data Type | Restriction  |
|----------------------------------|-----------------|-----------|--|
| <b>StudentIdentificationType</b> |                 |           |  |
| Student ID                       | StudentID       | String    | <ul style="list-style-type: none"> <li>Required element.</li> </ul> Public Schools: <ul style="list-style-type: none"> <li>The only acceptable value for the first position is an "S" or a character in the range of 0 to 8.</li> <li>For positions two through nine, the only acceptable value is eight characters in a sequence with each character in a range from 0 to 9.</li> </ul> Private Schools: <ul style="list-style-type: none"> <li>The minimum length is 1 and the maximum length is 64 characters.</li> </ul> |
| TX Student Unique ID             | StudentUniqueID | String    | <ul style="list-style-type: none"> <li>Required if available.</li> <li>10-digit numeric value.</li> </ul>  |
| (Student) First Name             | FirstName       | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Limited to a single occurrence.</li> <li>The minimum length is 1 and the maximum length is 30 characters.</li> <li>White space is preserved.</li> <li>The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul>   |
| (Student) Middle Name            | MiddleName      | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Limited to a single occurrence.</li> <li>The minimum length is 1 and the maximum length is 30 characters.</li> <li>White space is preserved.</li> <li>The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul>   |

| Element Name              | XML Name | Data Type | Restriction  |
|---------------------------|----------|-----------|--|
| (Student) Last Name       | LastName | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Limited to a single occurrence.</li> <li>The minimum length is 1 and the maximum length is 40 characters.</li> <li>White space is preserved.</li> <li>The only acceptable value is a sequence of at least 1 to 40 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul> |
| (Student) Generation Code | Suffix   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of a single character.</li> <li>If provided, the only acceptable value is a single character in a rank from 1-9, A- C.</li> </ul>   |
| Prior ID                  | PriorID  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>If provided, minimum length of 1 and a maximum length of 9.</li> <li>Any of the following characters, including the space character, are valid:<br/>           ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>           YZabcdefghijklmnopqrstuvwxyz01234<br/>           56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>                                   |
| Local Student ID          | LocalID  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>If provided, minimum length of 1 and a maximum length of 9.</li> <li>Any of the following characters, including the space character, are valid:<br/>           ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>           YZabcdefghijklmnopqrstuvwxyz01234<br/>           56789 ~! @ # \$ % ^ &amp; * ( ) _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>                                     |
| (Student) Address         | Address  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of fifty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>           ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>           bcdefghijklmnopqrstuvwxyz0123456789<br/>           ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>                           |

| Element Name         | XML Name      | Data Type | Restriction   |
|----------------------|---------------|-----------|---|
| (Student) City       | City          | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of thirty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz0123456789<br/>~!@#\$%^&amp;*()-_+=:;“'"/&lt;&gt;?</li> </ul>  |
| (Student) State      | StateProvince | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC20.</li> </ul>   |
| (Student) Country    | Country       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC04.</li> <li>Should default to US.</li> </ul>  |
| (Student) Zip        | PostalCode    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Minimum length of five and a maximum length of ten characters.</li> <li>If ten characters provided, must include a hyphen in position six.</li> </ul>   |
| <b>Parent</b>        |               |           |   |
| (Parent) First Name  | FirstName     | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>The minimum length is 1 and the maximum length is 30 characters.</li> <li>White space is preserved.</li> <li>Limited to nine occurrences.</li> <li>The only acceptable value is a sequence of at least 1 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul> |
| (Parent) Middle Name | MiddleName    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length is 30 characters.</li> <li>White space is preserved.</li> <li>The only acceptable value is a sequence of at least 0 to 30 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul>   |

| Element Name                     | XML Name                          | Data Type | Restriction   |
|----------------------------------|-----------------------------------|-----------|---|
| (Parent) Last Name               | LastName                          | String    | <ul style="list-style-type: none"> <li>• Required element.</li> <li>• The minimum length is 1 and the maximum length is 40 characters.</li> <li>• White space is preserved.</li> <li>• Limited to nine occurrences.</li> <li>• The only acceptable value is a sequence of at least 1 to 40 characters with each character either a lower-case a through z, upper-case A through Z, an apostrophe, a hyphen, a 0 through 9, or a space.</li> </ul> |
| (Parent) Generation Code         | Suffix                            | String    | <ul style="list-style-type: none"> <li>• Optional element.</li> <li>• Maximum length of a single character.</li> <li>• If provided, the only acceptable value is a single character in a rank from 1-9, A-C.</li> </ul>   |
| <b>StudentDemographic</b>        |                                   |           |   |
| Gender Code                      | Gender                            | String    | <ul style="list-style-type: none"> <li>• Required element.</li> <li>• Limited to a single occurrence.</li> <li>• Maximum length of a single character.</li> <li>• The only acceptable value is one of the following letters: "M" or "F".</li> </ul>   |
| <b>Ethnicity Code</b>            | Race                              | String    | <ul style="list-style-type: none"> <li>• Required for Students prior to 2010-2011 School Year.</li> <li>• Limited to a single occurrence.</li> <li>• Maximum length of a single character.</li> <li>• The only acceptable value is a single character in a range from 1 to 5.</li> </ul>  |
| American Indian-Alaska Native    | AmericanIndianAlaskaNativeCode    | String    | <ul style="list-style-type: none"> <li>• The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>• Maximum length of one character.</li> <li>• Optional element.</li> </ul>   |
| Asian                            | AsianCode                         | String    | <ul style="list-style-type: none"> <li>• The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>• Maximum length of one character.</li> <li>• Optional element.</li> </ul>   |
| Black-African-American           | BlackAfricanAmericanCode          | String    | <ul style="list-style-type: none"> <li>• The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>• Maximum length of one character.</li> <li>• Optional element.</li> </ul>   |
| Native Hawaiian-Pacific Islander | NativeHawaiianPacificIslanderCode | String    | <ul style="list-style-type: none"> <li>• The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>• Maximum length of one character.</li> <li>• Optional element.</li> </ul>   |



| Element Name                    | XML Name           | Data Type | Restriction  |
|---------------------------------|--------------------|-----------|--|
| White                           | WhiteCode          | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>  |
| Hispanic-Latino                 | HispanicLatinoCode | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>  |
| Date of Birth                   | BirthDate          | Date      | <ul style="list-style-type: none"> <li>Required element.</li> <li>Limited to a single occurrence.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul> |
| Home Language                   | Language           | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC14.</li> </ul>  |
| Migrant Indicator               | Migrant            | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0 or 1.</li> </ul>  |
| Foster Care Indicator Code      | FosterCare         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable values are listed in Code Table TC33</li> </ul>  |
| Military Connected              | MilitaryConnected  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable values are listed in Code Table TC34</li> </ul>  |
| Dyslexia Indicator Code         | Dyslexia           | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16 (0/1)</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>  |
| Homeless Indicator              | Homeless           | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable values are listed in Code Table TC32.</li> </ul>   |
| Unschooling Asylee/Refugee Code | AsyleeRefugee      | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0,1 or 2.</li> </ul>  |
| <b>School</b>                   |                    |           |  |

| Element Name  | XML Name     | Data Type | Restriction  |
|---------------|--------------|-----------|--|
| Campus ID     | SchoolID     | String    | <ul style="list-style-type: none"> <li>• Required element.</li> <li>• Minimum length of nine characters.</li> <li>• Must be valid TEA-approved campus identification number.</li> <li>• Declared as a string data type to allow for zeros in the first position.</li> <li>• The only acceptable value is nine characters in a sequence with each character in a range from 0 to 9.</li> </ul>  |
| Campus Name   | SchoolName   | String    | <ul style="list-style-type: none"> <li>• Required data element.</li> <li>• Maximum length of thirty-four characters.</li> <li>• White space is preserved.</li> <li>• Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89</li> </ul>  |
| District ID   | DistrictID   | String    | <ul style="list-style-type: none"> <li>• Required element.</li> <li>• Minimum length of six characters.</li> <li>• Must be valid TEA-approved district identification number.</li> <li>• Declared as a string data type to allow for zeros in the first position.</li> <li>• The only acceptable value is six characters in a sequence with each character in a range from 0 to 9.</li> </ul>  |
| District Name | DistrictName | String    | <ul style="list-style-type: none"> <li>• Optional element.</li> <li>• Maximum length of thirty-four characters.</li> <li>• White space is preserved.</li> <li>• Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; “<br/>‘ , . / &lt; &gt; ?</li> <li>• May not include the following characters: \ {} [ ]  </li> </ul> |

| Element Name     | XML Name      | Data Type | Restriction   |
|------------------|---------------|-----------|---|
| (Campus) Address | Address       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of fifty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; “<br/>, . / &lt; &gt; ?</li> </ul>  |
| (Campus) City    | City          | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of thirty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; “<br/>, . / &lt; &gt; ?</li> </ul> |
| (Campus) State   | StateProvince | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC20.</li> </ul>   |
| Country          | Country       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC04.</li> <li>Should default to US.</li> </ul>  |
| (Campus) Zip     | PostalCode    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Minimum length of five and a maximum length of ten characters.</li> <li>If ten characters provided, must include a hyphen in position six.</li> </ul>   |
| (Campus) Phone   | PhoneNumber   | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Maximum length of twenty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>EXText0123456789 # ( ) -</li> </ul>   |

| Element Name            | XML Name       | Data Type | Restriction  |
|-------------------------|----------------|-----------|--|
| (Campus) Fax            | Fax            | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of twenty characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>EXText0123456789 # () -</li> </ul>   |
| <b>Enrollment</b>       |                |           |  |
| Grade Level             | GradeLevel     | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>  |
| Original Entry Date     | EntryDate      | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Record must contain only one.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul> |
| Last Date of Attendance | ExitDate       | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Record may contain only one.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul>  |
| Last Withdrawal Date    | WithdrawDate   | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Record may contain only one.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul>  |
| Withdrawal Reason       | WithdrawReason | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC23.</li> </ul>  |
| Placed in Grade         | GradePlaced    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>  |

| Element Name                                     | XML Name              | Data Type | Restriction  |
|--|-----------------------|-----------|--|
| Promoted to Grade                                | GradePromoted         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>                            |
| Grade of Retention (PK-8)                        | GradeRetained         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>                            |
| <b>SpecialPrograms</b>                           |                       |           |  |
| LEP (Limited English Proficiency) Indicator      | LEP                   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable values are 0, 1, F, or S.</li> </ul>   |
| Economically Disadvantaged Indicator             | EconomicDisadvantaged | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable values are listed in Code Table TC08.</li> </ul>                              |
| At Risk Indicator                                | AtRisk                | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0 or 1.</li> </ul>                              |
| Title I Part A Indicator                         | TitleI                | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0, A, 6, 7, 8, or 9.</li> </ul>                 |
| Special Education Indicator                      | SpecialEd             | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0 or 1.</li> </ul>                              |
| IEP (Individualized Education Program) Indicator | IEP                   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0 or 1.</li> </ul>                              |
| Bilingual Indicator                              | Bilingual             | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>If provided, the only acceptable values are 0, 2, 3, 4, or 5.</li> </ul>                           |
| ESL (English as Second Language) Indicator       | ESL                   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable values are 0, 2, or 3.</li> </ul>  |
| Gifted/Talented Indicator                        | GiftedTalented        | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>If provided, the only acceptable value is a single character in a rank from 0 through 2</li> </ul> |

| Element Name             | XML Name         | Data Type | Restriction  |
|--------------------------|------------------|-----------|--|
| Career Tech Ed Indicator | CTE              | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>If provided, the only acceptable value is a single character of 0 through 3.</li> </ul>  |
| Personal Graduation Plan | PersonalGradPlan | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of one character.</li> <li>The only acceptable value is a single character of 0 or 1.</li> </ul>  |
| <b>Assessment</b>        |                  |           |  |
| Assessment Name          | TestName         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each assessment.</li> <li>Maximum length of two digits.</li> <li>If provided, the only acceptable values are listed in Code Table TC01.</li> <li>If provided, then the TestDate and TestScore or TestCode are required.</li> <li>If provided, then AdditionalTestName must be blank within each assessment.</li> </ul>   |
| Assessment Grade Level   | TestLevel        | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each assessment.</li> <li>Maximum length of two characters.</li> <li>If provided, the only acceptable values are listed in Code Table TC12.</li> </ul>   |
| Assessment Date          | TestDate         | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each assessment.</li> <li>If provided, then TestName and TestScore or Test Code are required.</li> <li>Maximum length of seven characters.</li> <li>The date type implements an ISO data type in the form of yyyy-mm.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2040-01.</li> <li>For STAAR® EOC, mm value 13 indicates Fall, 15 indicates Spring and 16 indicates Summer testing windows.</li> </ul> |

| Element Name                               | XML Name                   | Data Type | Restriction  |
|--|----------------------------|-----------|--|
| Assessment Date<br>Exit Requirement<br>Met | ExitRequirementMet<br>Date | Date      | <ul style="list-style-type: none"> <li>• Optional element.</li> <li>• May be repeated for each assessment.</li> <li>• Maximum length of seven characters.</li> <li>• The date type implements an ISO data type in the form of yyyy-mm.</li> <li>• The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2040-01.</li> </ul>  |
| Assessment Score                           | TestScore                  | String    | <ul style="list-style-type: none"> <li>• Optional element.</li> <li>• May be repeated for each assessment.</li> <li>• If provided, then TestName or AdditionalTestName and TestDate are required.</li> <li>• Maximum length of six characters.</li> <li>• Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/>/ &lt; &gt; ?</li> </ul> |
| Assessment Score<br>Code                   | TestCode                   | String    | <ul style="list-style-type: none"> <li>• Optional element.</li> <li>• May be repeated for each assessment.</li> <li>• If provided, then TestName or AdditionalTestName and TestDate are required.</li> <li>• Maximum length of a single character.</li> <li>• The only acceptable values are listed in Code Table TC02.</li> </ul>   |
| STAAR<br>Performance Level                 | PerformanceLevel           | String    | <ul style="list-style-type: none"> <li>• Optional Element</li> <li>• May be repeated for each assessment.</li> <li>• If provided, then TestName or AdditionalTestName and TestDate are required.</li> <li>• Maximum length of a single character.</li> <li>• The only acceptable values are listed in Code Table TC31.</li> </ul>  |
| Additional Test<br>Name                    | AdditionalTestName         | String    | <ul style="list-style-type: none"> <li>• Optional element</li> <li>• If provided, then TestName must be blank within each Assessment.</li> <li>• Maximum length of 60 characters</li> <li>• If provided, then the TestDate and TestScore or TestCode are required.</li> </ul>  |

| Element Name             | XML Name         | Data Type | Restriction  |
|--------------------------|------------------|-----------|--|
| Assessment Subtest       | SubTestName      | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of 60 characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz0123456789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>  |
| Assessment Subtest Score | SubTestScore     | String    | <ul style="list-style-type: none"> <li>Optional element</li> <li>Maximum length of 6 characters</li> <li>If provided, then the SubTestName and TestDate are required.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz0123456789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul> |
| <b>Attendance</b>        |                  |           |  |
| Total Days Present       | DaysAttended     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Implied decimal within ###. # format.</li> <li>Must end in .0 or .5 (implied decimal).</li> </ul>  |
| Total Days Absent        | DaysAbsent       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Implied decimal within ###. # format.</li> <li>Must end in .0 or .5 (implied decimal).</li> </ul>  |
| <b>Immunization</b>      |                  |           |  |
| Immunization Name        | ImmunizationCode | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of thirty-five characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz0123456789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>   |
| Immunization Date        | ImmunizationDate | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul>  |
| Immunization Dose        | ImmunizationDose | Integer   | <ul style="list-style-type: none"> <li>Optional element</li> <li>Maximum length of two digits.</li> </ul>  |
| <b>DisciplineAction</b>  |                  |           |  |



| Element Name                                | XML Name                 | Data Type | Restriction   |
|---|--------------------------|-----------|---|
| Disciplinary Action End Date                | DisciplineActionDate     | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than current date (date record is created).</li> </ul>           |
| Disciplinary Action Number                  | DisciplineActionNum      | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of three characters.</li> </ul>  |
| Disciplinary Action Code                    | DisciplineActionCode     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>If provided, the only acceptable values are listed in Code Table TC06.</li> </ul>  |
| Disciplinary Action Reason                  | DisciplineActionReason   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of two characters.</li> <li>If provided, the only acceptable values are listed in Code Table TC07.</li> </ul>  |
| <b>AcademicStatus</b>                       |                          |           |   |
| Graduation Date                             | GraduationDate           | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The date type implements an ISO data type in the form of YYYY-MM.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01 and less than 2052-01.</li> </ul>          |
| Speech Requirement Met Date                 | SpeechMetDate            | Date      | <ul style="list-style-type: none"> <li>YYYY-MM</li> <li>Optional element.</li> </ul>  |
| Graduation Program Type                     | GraduationDiplomaType    | String    | <ul style="list-style-type: none"> <li>Optional element if GradeLevel 10 or lower.</li> <li>Maximum length of two characters.</li> <li>If provided, the only acceptable values are listed in Code Table TC13.</li> </ul>  |
| Certification of Coursework Completion Date | CertificateDate          | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul> |
| Texas Grant Indicator                       | TexasGrant               | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of a single character.</li> <li>The only acceptable values are listed in Code Table TC21</li> </ul>  |
| Distinguished Achievement                   | DistinguishedAchievement | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum occurrence is one.</li> </ul>   |

| Element Name   | XML Name                      | Data Type | Restriction   |
|--|-------------------------------|-----------|---|
| Advanced Measure   | AdvancedMeasure               | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum occurrence is four.</li> <li>The only acceptable values are listed in Code Table TC29</li> </ul>      |
| FHSP Participant Code                                    | FHSPParticipantCode           | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| FHSP Disting Level Achieve Indicator Code                | FHSPDistingIndicatorCode      | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Arts and Humanities Endorsement Indicator Code           | ArtsEndorsementCode           | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Business and Industry Endorsement Indicator Code         | BusinessEndorsementCode       | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Multi-Disciplinary Studies Endorsement Indicator Code    | MultiStudiesEndorsementCode   | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Public Services Endorsement Indicator Code               | PublicServicesEndorsementCode | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| STEM Endorsement Indicator Code                          | STEMEndorsementCode           | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC35</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Performance Acknowledgment Dual Credit                   | DualCreditType                | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC39</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Performance Acknowledgment Bilingualism/Biliteracy       | BilingBilitType               | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC37</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |
| Performance Acknowledgment College Readiness Assessments | CollegeAssessType             | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC38</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul> |

| Element Name  | XML Name                              | Data Type | Restriction  |
|---|---------------------------------------|-----------|--|
| Performance Acknowledgment AP IB Exams              | AplbType                              | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC36</li> <li>Maximum length of three characters.</li> <li>Optional element.</li> </ul> |
| Performance Acknowledgment Certification Licensures | CertLicType                           | String    | <ul style="list-style-type: none"> <li>Text field.</li> <li>Maximum length 61 characters.</li> <li>Optional element.</li> </ul>  |
| Individual-Graduation-Committee-Review-Code         | IGCGradReview                         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The only acceptable values are listed in Code Table TC40</li> </ul>  |
| FHSP College Career Instruction Indicator Code      | FHSPCollegeCareerInstructionIndicator | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>    |
| Associate Degree Indicator Code                     | AssociateDegree                       | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>    |
| On-Ramps Dual Enrollment Indicator Code             | OnRamps                               | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>    |
| CPR-Instruction-Met-Date                            | CPRMetDate                            | Date      | <ul style="list-style-type: none"> <li>YYYY-MM</li> <li>Optional element.</li> </ul>   |
| Peace-Officer-Interaction-Instruction-Met-Date      | POIIMetDate                           | Date      | <ul style="list-style-type: none"> <li>YYYY-MM</li> <li>Optional element.</li> </ul>   |
| Section-504-Indicator-Code                          | Section504                            | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>    |
| Star-Of-Texas-Indicator-Code                        | StarofTexas                           | String    | <ul style="list-style-type: none"> <li>The only acceptable values are listed in Code Table TC16</li> <li>Maximum length of one character.</li> <li>Optional element.</li> </ul>    |
| <b>CurrentCoursework</b>                            |                                       |           |  |

| Element Name        | XML Name     | Data Type | Restriction  |
|---------------------|--------------|-----------|--|
| Course Name         | CourseTitle  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of one hundred characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>                              |
| Course Number       | CourseID     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of eight characters for public schools. Maximum length of 64 characters for private schools.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul> |
| Course Abbreviation | Abbreviation | String    | <ul style="list-style-type: none"> <li>Optional element</li> <li>May be repeated.</li> <li>Maximum length of one hundred characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , . / &lt; &gt; ?</li> </ul>  |
| Course Semester     | Semester     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of one digit.</li> </ul>   |

| Element Name            | XML Name      | Data Type | Restriction  |
|-------------------------|---------------|-----------|--|
| Class Period            | ClassPeriod   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of five characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/>/ &lt; &gt; ?</li> </ul> |
| Course Category         | SubjectArea   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic year.</li> <li>Maximum length of four characters.</li> <li>The only acceptable values are listed in Code Table TC05</li> </ul>   |
| Course Grade            | CourseGrade   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; "<br/>' , . / &lt; &gt; ?</li> </ul>  |
| Withdrawal Course Grade | WithdrawGrade | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of fifteen characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; "<br/>' , . / &lt; &gt; ?</li> </ul>  |
| Course Grade Average    | GradeAverage  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; "<br/>' , . / &lt; &gt; ?</li> </ul>  |

| Element Name               | XML Name       | Data Type | Restriction  |
|----------------------------|----------------|-----------|--|
| Course Credit              | CourseCredit   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Implied decimal within #. # format.</li> </ul>   |
| Pass/Fail Credit Indicator | PassFailCredit | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course,</li> <li>Maximum length of two characters.</li> <li>If present, the only acceptable values are listed in Code Table TC25.</li> </ul>  |
| Special Explanation Code   | Explanation    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of 2 characters.</li> <li>May be repeated for each course.</li> <li>If present, the only acceptable values are listed in Code Table TC19.</li> </ul>  |
| Course Teacher             | CourseTeacher  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each CourseTitle.</li> <li>Maximum length of forty characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>           ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>           bcdefghijklmnopqrstuvwxyz01234567<br/>           89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/>           / &lt; &gt; ?</li> </ul> |
| Campus Awarding Credit     | CreditCampus   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Minimum length of nine characters.</li> <li>Must be valid TEA-approved campus identification number.</li> <li>Declared as a string data type to allow for zeros in the first position.</li> <li>The only acceptable value is nine characters in a sequence with each character in a range from 0 to 9.</li> </ul>  |
| Semester Sequence          | SemesterSeq    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of a single character.</li> <li>May be repeated for each course or AcademicSessionType.</li> <li>If present, the only acceptable values are 0 through A.</li> </ul>   |

| Element Name           | XML Name          | Data Type | Restriction  |
|------------------------|-------------------|-----------|--|
| Final Grade Average    | FinalGradeAverage | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/> ABCDEF GHIJKLMNOPQRSTUVWXYZ<br/> abcdefghijklmnopqrstuvwxyz0123456789 ~! @ # \$ % ^ &amp; * ( ) - _ + = ; : " ' , . / &lt; &gt; ?</li> </ul>  |
| Academic Year          | SchoolYear        | String    | <ul style="list-style-type: none"> <li>Required element if student has not graduated.</li> <li>Maximum length of nine characters.</li> <li>Punctuation allowed includes dash.</li> <li>Can be repeated as needed.</li> </ul>   |
| Grade Level            | GradeLevel        | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>  |
| <b>AcademicSession</b> |                   |           |  |
| Academic Year          | SchoolYear        | String    | <ul style="list-style-type: none"> <li>Required element if student has not graduated.</li> <li>Maximum length of nine characters.</li> <li>Punctuation allowed includes dash.</li> <li>Can be repeated as needed.</li> </ul>   |
| Grade Level            | GradeLevel        | String    | <ul style="list-style-type: none"> <li>Required element.</li> <li>Maximum length of two characters.</li> <li>The only acceptable value is EE, PK, KG, and 01 through 12.</li> </ul>  |
| Course Name            | CourseTitle       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of one hundred characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/> ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/> bcdefghijklmnopqrstuvwxyz01234567<br/> 89 ~! @ # \$ % ^ &amp; * ( ) - _ + = ; : " ' , . / &lt; &gt; ?</li> </ul> |

| Element Name        | XML Name     | Data Type | Restriction  |
|---------------------|--------------|-----------|--|
| Course Number       | CourseID     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of eight characters for public schools. Maximum length of 64 characters for private schools.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/>/ &lt; &gt; ?</li> </ul> |
| Course Abbreviation | Abbreviation | String    | <ul style="list-style-type: none"> <li>Optional element</li> <li>May be repeated.</li> <li>Maximum length of one hundred characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; "<br/>' , . / &lt; &gt; ?</li> </ul>  |
| Course Semester     | Semester     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of one digit.</li> </ul>   |
| Class Period        | ClassPeriod  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic period.</li> <li>Maximum length of five characters.</li> <li>White space is preserved.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/>/ &lt; &gt; ?</li> </ul>                                       |
| Course Category     | SubjectArea  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course or academic year.</li> <li>Maximum length of four characters.</li> <li>The only acceptable values are listed in Code Table TC05</li> </ul>   |



| Element Name               | XML Name       | Data Type | Restriction  |
|----------------------------|----------------|-----------|--|
| Course Grade               | CourseGrade    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/> ABCDEF GHIJK LMNOP QRSTUVWXYZa<br/> bcdefghijklmnopqrstuvwxyz01234567<br/> 89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/> / &lt; &gt; ?</li> </ul>     |
| Withdrawal Course Grade    | WithdrawGrade  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of fifteen characters.</li> <li>Any of the following characters, including the space character, are valid:<br/> ABCDEF GHIJK LMNOP QRSTUVWXYZa<br/> bcdefghijklmnopqrstuvwxyz01234567<br/> 89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/> / &lt; &gt; ?</li> </ul> |
| Course Grade Average       | GradeAverage   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/> ABCDEF GHIJK LMNOP QRSTUVWXYZa<br/> bcdefghijklmnopqrstuvwxyz01234567<br/> 89 ~! @ # \$ % ^ &amp; * ( ) - _ + = : ; " ' , .<br/> / &lt; &gt; ?</li> </ul>     |
| Course Credit              | CourseCredit   | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Implied decimal within #.# format.</li> </ul>  |
| Pass/Fail Credit Indicator | PassFailCredit | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of two characters.</li> <li>If present, the only acceptable values are listed in Code Table TC25.</li> </ul>  |
| Special Explanation Code   | Explanation    | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of 2 characters.</li> <li>May be repeated for each course.</li> <li>If present, the only acceptable values are listed in Code Table TC19.</li> </ul>  |

| Element Name           | XML Name          | Data Type | Restriction  |
|------------------------|-------------------|-----------|--|
| Course Teacher         | CourseTeacher     | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each CourseTitle.</li> <li>Maximum length of forty characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = ; : " ' , .<br/>/ &lt; &gt; ?</li> </ul> |
| Campus Awarding Credit | CreditCampus      | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Minimum length of nine characters.</li> <li>Must be valid TEA-approved campus identification number.</li> <li>Declared as a string data type to allow for zeros in the first position.</li> <li>The only acceptable value is nine characters in a sequence with each character in a range from 0 to 9.</li> </ul>              |
| Semester Sequence      | SemesterSeq       | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of a single character.</li> <li>May be repeated for each course or AcademicSessionType.</li> <li>If present, the only acceptable values are 0 through A.</li> </ul>   |
| Final Grade Average    | FinalGradeAverage | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>May be repeated for each course.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZa<br/>bcdefghijklmnopqrstuvwxyz01234567<br/>89 ~! @ # \$ % ^ &amp; * ( ) - _ + = ; : " ' , .<br/>/ &lt; &gt; ?</li> </ul>        |
| <b>AcademicSummary</b> |                   |           |  |
| Grade Point Average    | GPA               | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of ten characters.</li> <li>Any of the following characters, including the space character, are valid:<br/>ABCDEFGHIJKLMNOPQRSTUVWXYZ<br/>YZabcdefghijklmnopqrstuvwxyz01234<br/>56789 ~! @ # \$ % ^ &amp; * ( ) - _ + = ; : " ' , .<br/>/ &lt; &gt; ?</li> </ul>  |

| Element Name              | XML Name          | Data Type | Restriction   |
|---------------------------|-------------------|-----------|---|
| Number in Class           | ClassTotalNumber  | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of five digits.</li> <li>If provided, the only acceptable value is a range from 1 through 99999.</li> </ul>  |
| Class Rank                | ClassRank         | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of five digits.</li> <li>If provided, the only acceptable value is a range from 0 through 99999.</li> </ul>  |
| Date of Ranking           | ClassRankingDate  | Date      | <ul style="list-style-type: none"> <li>Optional element.</li> <li>The date type implements an ISO data type in the form of YYYY-MM-DD.</li> <li>The only acceptable value is a valid date with a minimum value greater than or equal to 1957-01-01 and less than 2040-01-01.</li> </ul>                         |
| Quartile                  | Quartile          | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of a single character.</li> <li>If present, the only acceptable value is a single character in a rank from 1 through 4.</li> </ul>   |
| College Board Campus Code | CollegeCampusCode | String    | <ul style="list-style-type: none"> <li>Optional element.</li> <li>Maximum length of six characters.</li> <li>Declared as a string data type to allow for zeros in the first position.</li> <li>The only acceptable value is six characters in a sequence with each character in a range from 0 to 9.</li> </ul> |

## Example of TReX Instance

Following is an example of the XSD for an extract file for a student record. Please reference Appendix B of this manual for an example of the full TReX XML schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<trex:TRExStudentRecords xmlns:trex="urn:us:tx:state:tea:TREx:v1.20"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
<TRExStudentRecord>
<StudentIdentification>
  <StudentUniqueID>1234567890</StudentUniqueID>
<Name>
  <FirstName>Joe</FirstName>
  <MiddleName>Q</MiddleName>
  <LastName>Jones</LastName>
  <Suffix>1</Suffix>
</Name>
  <StudentID>33322444</StudentID>
  <PriorID>a</PriorID>
  <LocalID>a</LocalID>

<Address>
  <Address>101 Congress Ave.</Address>
  <City>Austin</City>
  <StateProvince>TX</StateProvince>
  <Country>US</Country>
  <PostalCode>78701</PostalCode>
</Address>

</StudentIdentification>
<Parent>
<Name>
  <FirstName>Cassandra</FirstName>
  <MiddleName>a</MiddleName>
  <LastName>Jones</LastName>
  <Suffix>4</Suffix>
</Name>
</Parent>

<StudentDemographic>
  <Gender>F</Gender>
  <Race>5</Race>

<Ethnicity>
  <AmericanIndianAlaskaNativeCode>1</AmericanIndianAlaskaNativeCode>
  <AsianCode>1</AsianCode>
  <BlackAfricanAmericanCode>0</BlackAfricanAmericanCode>
  <HispanicLatinoCode>0</HispanicLatinoCode>
  <NativeHawaiianPacificIslanderCode>0</NativeHawaiianPacificIslanderCode>
  <WhiteCode>1</WhiteCode>
</Ethnicity>

  <BirthDate>0000-0-0</BirthDate>
  <HomeLanguage>5N</HomeLanguage>
  <StudentLanguage>2N</StudentLanguage>
```

```
<HomeLanguageSurveyDateAdministered>0000-0-0</HomeLanguageSurveyDateAdministered>
  <Migrant>1</Migrant>
  <Homeless>0</Homeless>
  <Dyslexia>0</Dyslexia>
  <MilitaryConnected>1</MilitaryConnected>
  <FosterCare>1</FosterCare>
  <AsyleeRefugeeCode>1</AsyleeRefugeeCode>
</StudentDemographic>

<School>
  <SchoolID>00000000</SchoolID>
  <SchoolName>a</SchoolName>
  <DistrictID>000000</DistrictID>
  <DistrictName>a</DistrictName>

<Address>
  <Address>a</Address>
  <City>a</City>
  <StateProvince>PE</StateProvince>
  <Country>TO</Country>
  <PostalCode>00000</PostalCode>
</Address>
  <PhoneNumber>a</PhoneNumber>
  <Fax>a</Fax>
</School>

<Enrollment>
  <GradeLevel>12</GradeLevel>
  <EntryDate>0000-0-0</EntryDate>
  <ExitDate>0000-0-0</ExitDate>
  <WithdrawDate>0000-0-0</WithdrawDate>
  <WithdrawReason>82</WithdrawReason>
  <GradePlaced>EE</GradePlaced>
  <GradePromoted>08</GradePromoted>
  <GradeRetained>03</GradeRetained>
</Enrollment>

<SpecialPrograms>
  <LEP>F</LEP>
  <AlternativeLanguage>02</AlternativeLanguage>
<DualLanguageImmersion>
  <ImmersionYear>01</ImmersionYear>
  <ImmersionLanguage>06</ImmersionLanguage>
  <AssessmentMetDate>0000-0</AssessmentMetDate>
  <CompletionSchoolYear>0000-0000</CompletionSchoolYear>
</DualLanguageImmersion>
  <EconomicDisadvantaged>99</EconomicDisadvantaged>
  <AtRisk>0</AtRisk>
  <TitleI>7</TitleI>
  <SpecialEd>0</SpecialEd>
  <IEP>0</IEP>
  <Bilingual>1</Bilingual>
```

```
<ESL>1</ESL>
<GiftedTalented>2</GiftedTalented>
<CTE>2</CTE>
<PersonalGradPlan>1</PersonalGradPlan>
</SpecialPrograms>

<Assessment>
  <TestName>B2</TestName>
  <TestLevel>10</TestLevel>
  <TestDate>0000-0</TestDate>
  <ExitRequirementMetDate>0000-0</ExitRequirementMetDate>
  <TestScore>a</TestScore>
  <TestCode>L</TestCode>
  <PerformanceLevel>4</PerformanceLevel>
  <AssessmentSubTest>
    <SubTestName>a</SubTestName>
    <SubTestScore>a</SubTestScore>
  </AssessmentSubTest>
</Assessment>

<Attendance>
  <DaysAttended>0</DaysAttended>
  <DaysAbsent>0</DaysAbsent>
</Attendance>

<Immunization>
  <ImmunizationCode>a</ImmunizationCode>
  <ImmunizationDate>0000-0-0</ImmunizationDate>
  <ImmunizationDose>0</ImmunizationDose>
</Immunization>

<DisciplineAction>
  <DisciplineActionDate>0000-0-0</DisciplineActionDate>
  <DisciplineActionNum>0</DisciplineActionNum>
  <DisciplineActionCode>25</DisciplineActionCode>
  <DisciplineActionReason>56</DisciplineActionReason>
</DisciplineAction>

<AcademicStatus>
  <GraduationDate>0000-0</GraduationDate>
  <SpeechMetDate>0000-0</SpeechMetDate>
  <GraduationDiplomaType>24</GraduationDiplomaType>
  <CertificateDate>0000-0-0</CertificateDate>
  <TexasGrant>2</TexasGrant>
  <DistinguishedAchievements>
    <AdvancedMeasure>A</AdvancedMeasure>
  </DistinguishedAchievements>
  <FHSPParticipationCode>0</FHSPParticipationCode>
  <FHSPDistingIndicatorCode>1</FHSPDistingIndicatorCode>
  <STEMEndorsementCode>1</STEMEndorsementCode>
  <BusinessEndorsementCode>0</BusinessEndorsementCode>
  <PublicServicesEndorsementCode>1</PublicServicesEndorsementCode>
  <ArtsEndorsementCode>1</ArtsEndorsementCode>
```

```
<MultiStudiesEndorsementCode>1</MultiStudiesEndorsementCode>
<DualCreditType>
  <DualCreditCode>2</DualCreditCode>
  <MetDate>2013-05</MetDate>
</DualCreditType>

  <BilingBilitType>
    <BilingBilitCode>1</BilingBilitCode>
    <MetDate>2013-01</MetDate>
  </BilingBilitType>

  <CollegeAssessType>
    <CollegeAssessCode>6</CollegeAssessCode>
    <MetDate>2012-02</MetDate>
  </CollegeAssessType>

  <ApIbType>
    <ApIbCode>57</ApIbCode>
    <MetDate>2013-05</MetDate>
  </ApIbType>

  <CertLicType>
    <CertLicCode>Microsoft Developer Network</CertLicCode>
    <MetDate>2012-08</MetDate>
  </CertLicType>

  <IGCGradReview>00</IGCGradReview>

  <FHSPCollegeCareerInstructionIndicator>1</FHSPCollegeCareerInstructionIndicator>
    <AssociateDegree>1</AssociateDegree>
    <OnRamps>1</OnRamps>
    <Section504>0</Section504>
    <POIIMetDate>2012-09</POIIMetDate>
    <CPRMetDate>2012-09</CPRMetDate>
    <StarOfTexas>1</StarOfTexas>
</AcademicStatus>

<CurrentCoursework>
  <Course>
    <CourseTitle>Algebra I 2092</CourseTitle>
    <CourseID>03100500</CourseID>
    <Abbreviation>1</Abbreviation>
    <Semester>1</Semester>
    <ClassPeriod>2</ClassPeriod>
    <SubjectArea>EL</SubjectArea>
    <CourseGrade>90</CourseGrade>
    <WithdrawGrade>70</WithdrawGrade>
    <GradeAverage>85</GradeAverage>
    <CourseCredit>1.0</CourseCredit>
    <PassFailCredit>05</PassFailCredit>
    <Explanation>T</Explanation>
    <CourseTeacher>a</CourseTeacher>
```

```
<CreditCampus>00000000</CreditCampus>
<SemesterSeq>D8</SemesterSeq>
<FinalGradeAverage>a</FinalGradeAverage>
</Course>

<SchoolYear>2020-2021</SchoolYear>
<GradeLevel>11</GradeLevel>
<SessionType>Quarter</SessionType>
</CurrentCoursework>
  <AcademicSession>
    <SchoolYear>2020-2021</SchoolYear>
    <GradeLevel>02</GradeLevel>
    <SessionType>Trimester</SessionType>
  <Course>

    <CourseTitle>Biology 3091</CourseTitle>
    <CourseID>03010200</CourseID>
    <Abbreviation>a</Abbreviation>
    <Semester>2</Semester>
    <ClassPeriod>1</ClassPeriod>
    <SubjectArea>SP</SubjectArea>
    <CourseGrade>85</CourseGrade>
    <WithdrawGrade>85</WithdrawGrade>
    <GradeAverage>85</GradeAverage>
    <CourseCredit>1.0</CourseCredit>
    <PassFailCredit>13</PassFailCredit>
    <Explanation>Z</Explanation>
    <CourseTeacher>a</CourseTeacher>
    <CreditCampus>00000000</CreditCampus>
    <SemesterSeq>A</SemesterSeq>
    <FinalGradeAverage>83</FinalGradeAverage>
  </Course>

  <AcademicSummary>
    <GPA>3.0</GPA>
    <ClassTotalNumber>200</ClassTotalNumber>
    <ClassRank>15</ClassRank>
    <ClassRankingDate>2006-12-1</ClassRankingDate>
    <Quartile>4</Quartile>
    <CollegeCampusCode>000000</CollegeCampusCode>
  </AcademicSummary>
</AcademicSession>
<AcademicSummary>
  <GPA>3.0</GPA>
  <ClassTotalNumber>200</ClassTotalNumber>
  <ClassRank>15</ClassRank>
  <ClassRankingDate>2006-12-1</ClassRankingDate>
  <Quartile>4</Quartile>
  <CollegeCampusCode>000000</CollegeCampusCode>
</AcademicSummary>
</TReXStudentRecord>
</trex:TReXStudentRecords>
```



## TREx Complex Types

Following is a list of the complex types and groups included in the TREx XML schema. Please refer to Appendix B for a full copy of the TREx XML Schema.

| Complex Type Name     | Element Name Sequence   |
|-----------------------|---|
| AcademicSessionType   | SchoolYear<br>GradeLevel<br>SessionType<br>Course<br>AcademicSummary  |
| AcademicStatusType    | GraduationDate<br>SpeechMetDate<br>GraduationDiplomaType<br>CertificateDate<br>TexasGrant<br>DistinguishedAchievements<br>AdvancedMeasure<br>FHSPParticipantCode<br>FHSPDistingIndicatorCode<br>STEMEndorsementCode<br>BusinessEndorsementCode<br>PublicServicesEndorsementCode<br>ArtsEndorsementCode<br>MultiStudiesEndorsementCode<br>DualCreditType<br>BilingBilitType<br>CollegeAssesType<br>ApIbType)<br>CertLicType<br>IGCGradReview<br>FHSPCollegeCareerInstructionndicator<br>AssociateDegree<br>OnRamps<br>Section504<br>POIIMetDate<br>CPRMetDate<br>StarofTexas |
| AcademicSummaryType   | GPA<br>ClassTotalNumber<br>ClassRank<br>ClassRankingDate<br>Quartile<br>CollegeCampusCode   |
| AddressType           | Address<br>City<br>StateProvince<br>Country<br>PostalCode   |
| AssessmentSubTestType | SubTestType<br>SubTestScore   |
| AssessmentType        | TestName  |

| Complex Type Name     | Element Name Sequence   |
|-----------------------|---|
| AttendanceType        | AdditionalTestName<br>TestLevel<br>TestDate<br>ExitRequirementMetDate<br>TestScore<br>TestCode<br>PerformanceLevel<br>AssessmentSubTest   |
| CourseType            | DaysAttended<br>DaysAbsent<br><br>CourseTitle<br>CourseID<br>Abbreviation<br>Semester<br>ClassPeriod<br>SubjectArea<br>CourseGrade<br>WithdrawGrade<br>GradeAverage<br>CourseCredit<br>PassFailCredit<br>Explanation<br>CourseTeacher<br>CreditCampus<br>SemesterSeq<br>FinalGradeAverage |
| CurrentCourseworkType | <del>CourseType</del><br>SchoolYear<br>GradeLevel<br>SessionType  |
| DisciplineActionType  | DisciplineActionDate<br>DisciplineActionNum<br>DisciplineActionCode<br>DisciplineActionReason   |
| EnrollmentType        | GradeLevel<br>EntryDate<br>ExitDate<br>WithdrawDate<br>WithdrawReason<br>GradePlaced<br>GradePromoted<br>GradeRetained  |
| EthnicityType         | AmericanIndianAlaskaNativeCode<br>AsianCode<br>BlackAfricanAmericanCode<br>HispanicLatinoCode<br>NativeHawaiianPacificIslanderCode  |

| Complex Type Name         | Element Name Sequence   |
|---------------------------|---|
| ImmunizationType          | WhiteCode<br>ImmunizationCode<br>ImmunizationDate<br>ImmunizationDose   |
| ParentType                | Name  |
| PersonNameType            | FirstName<br>MiddleName<br>LastName<br>Suffix   |
| PhoneNumberGroup          | PhoneNumber<br>Fax  |
| SchoolType                | SchoolID<br>SchoolName<br>DistrictID<br>DistrictName<br>Address<br>PhoneNumber  |
| SpecialProgramsType       | LEP<br>AlternativeLanguage<br>DualLanguageImmersion<br>EconomicDisadvantaged<br>AtRisk<br>TitleI<br>SpecialEd<br>IEP<br>Bilingual<br>ESL<br>GiftedTalented<br>CTE<br>Personal Graduation Plan |
| StudentDemographicType    | Gender<br>Race<br>Ethnicity<br>BirthDate<br>HomeLanguage<br>StudentLanguage<br>HomeLanguagesurveyDateAdministered<br>Migrant<br>Homeless<br>Dyslexia<br>MilitaryConnected<br>Foster Care      |
| StudentIdentificationType | AsyleeRefugee<br>StudentUniqueID<br>Name<br>StudentID   |

| Complex Type Name  | Element Name Sequence  |
|--------------------|--|
| Student RecordType | PriorID<br>LocalID<br>Address<br><br>StudentIdentificationType<br>Parent<br>StudentDemographic<br>School<br>Enrollment<br>SpecialPrograms<br>Assessment<br>Attendance<br>Immunization<br>DisciplineAction<br>AcademicStatus<br>CurrentCoursework<br>AcademicSession<br>AcademicSummary<br>TRExStudentRecord<br>PerfAckAplbType<br>AplbCode<br>MetDate<br>PerfAckCollegeAssessType<br>CollegeAssessCode<br>MetDate<br>PerfAckBilingBilitType<br>BilingBilitCode<br>MetDate<br>PerfAckCertLicType<br>CertLicCode<br>MetDate<br>PerfAckDualCreditType<br>DualCreditCode<br>MetDate<br>DistinguishedAchievementType<br>DualLanguageImmersionType<br>AdvancedMeasure<br>ImmersionYear<br>ImmersionLanguage<br>AssessmentMetDate<br>CompletionSchoolYear |

## TREx Simple Types

Following is a list of the simple types found in the TREx XML schema:

| Common Name                                      | Simple Name                    |
|--|--------------------------------|
| Academic Year                                    | SchoolYear                     |
| Additional Test Name                             | AdditionalTestName             |
| Address (Street or PO Box)                       | Address                        |
| Advanced Measure                                 | AdvancedMeasure                |
| American Indian- Alaska Native                   | AmericanIndianAlaskaNativeCode |
| Arts and Humanities Endorsement Indicator Code   | ArtsEndorsementCode            |
| Asian  | AsianCode                      |
| Assessment Date                                  | TestDate                       |
| Alternative Language Program                     | AlternativeLanguage            |
| Assessment Date Exit Requirement Met             | ExitRequirementMetDate         |
| Assessment Grade Level                           | TestLevel                      |
| Assessment Name                                  | TestName                       |
| Assessment Score                                 | TestScore                      |
| Assessment Score Code                            | TestCode                       |
| Assessment Subtest                               | SubTestName                    |
| Assessment Subtest Score                         | SubTestScore                   |
| Associate Degree Indicator Code                  | AssociateDegree                |
| At Risk Indicator                                | AtRisk                         |
| Bilingual Program Type Code                      | Bilingual                      |
| Bilingual Indicator                              | Bilingual                      |
| Black- African American                          | BlackAfricanAmericanCode       |
| Business and Industry Endorsement Indicator Code | BusinessEndorsementCode        |
| Campus Awarding Credit                           | CreditCampus                   |
| Campus Fax                                       | Fax                            |
| Campus ID  | SchoolID                       |
| Campus Name                                      | SchoolName                     |
| Campus Phone                                     | PhoneNumber                    |
| Career Tech Ed Indicator                         | CTE                            |
| Certification of Coursework Completion Date      | CertificateDate                |
| City   | City                           |
| Class Period                                     | ClassPeriod                    |
| Class Rank                                       | ClassRank                      |
| College Board Campus Code                        | CollegeCampusCode              |
| Course Category                                  | SubjectArea                    |
| Country  | Country                        |
| Course Abbreviation                              | Abbreviation                   |
| Course Category                                  | SubjectArea                    |
| Course Credit                                    | CourseCredit                   |
| Course Grade                                     | CourseGrade                    |
| Course Grade Average                             | GradeAverage                   |
| Course Name                                      | CourseTitle                    |
| Course Number                                    | CourseID                       |
| Course Semester                                  | Semester                       |
| Course Teacher                                   | CourseTeacher                  |
| CPR-Instruction-Met-Date                         | CPRInstructionMetDate          |
| Date of Birth                                    | BirthDate                      |

|  |                                       |
|--|---------------------------------------|
| Date of Ranking                                  | ClassRankingDate                      |
| Discipline Action Code                           | DisciplineActionCode                  |
| Disciplinary Action End Date                     | DisciplineActionDate                  |
| Disciplinary Action Number                       | DisciplineActionNum                   |
| Discipline Action Reason                         | DisciplineActionReason                |
| District ID                                      | DistrictID                            |
| District Name                                    | DistrictName                          |
| Dual Language Immersion Assessment Met Date      | AssessmentMetDate                     |
| Dual Language Immersion Completion School Year   | CompletionSchoolYear                  |
| Dual Language Immersion Language Code            | ImmersionLanguage                     |
| Dual Language Immersion Year                     | ImmersionYear                         |
| Dyslexia Indicator Code                          | Dyslexia                              |
| Economic Disadvantaged Indicator Code            | EconomicDisadvantage                  |
| ESL Indicator                                    | ESL                                   |
| Ethnicity Code (USDE 1977 definitions)           | Race                                  |
| FHSP College Career instruction Indicator Code   | FSHPCollegeCareerInstructionIndicator |
| FHSP Participant Code                            | FHSPParticipantCode                   |
| FHSP Disting Level Achieve Indicator Code        | FHSPParticipantCode                   |
| FHSP   | ArtsEndorsementCode                   |
| FHSP   | BusinessEndorsementCode               |
| FHSP   | MultiStudiesEndorsementCode           |
| FHSP   | PublicServicesEndorsementCode         |
| FHSP   | STEMEndorsementCode                   |
| Final Grade Average                              | FinalGradeAverage                     |
| First Name                                       | FirstName                             |
| Foster Care Indicator Code                       | FosterCare                            |
| Gender   | Gender                                |
| Generation Code                                  | Suffix                                |
| Gifted Talented Indicator                        | GiftedTalented                        |
| Grade Level                                      | GradeLevel                            |
| Grade of Retention (PK-8)                        | GradeRetained                         |
| Grade Point Average                              | GPA                                   |
| Graduation Date                                  | GraduationDate                        |
| Graduation Program Type                          | GraduationDiplomaType                 |
| Hispanic-Latino                                  | HispanicLatinoCode                    |
| Home Language Code                               | HomeLanguage                          |
| Home Language Survey Date Administered           | HomeLanguageSurveyDateAdministered    |
| Homeless Indicator                               | Homeless                              |
| IEP (Individualized Education Program) Indicator | IEP                                   |
| Immunization Date                                | ImmunizationDate                      |
| Immunization Dose                                | ImmunizationDose                      |
| Immunization Name                                | ImmunizationCode                      |
| Individual Graduation Committee Review Code      | IGCGradReview                         |
| Home Language                                    | Language                              |
| Last Date of Attendance                          | ExitDate                              |
| Last Name  | LastName                              |
| Last Withdrawal Date                             | WithdrawDate                          |
| LEP (Limited English Proficiency) Indicator      | LEP                                   |
| Local Student ID                                 | LocalID                               |

|   |                                       |
|---|---------------------------------------|
| Middle Name   | MiddleName                            |
| Migrant Indicator                                       | Migrant                               |
| 45TMilitary Connected                                   | 45TMilitaryConnected                  |
| Multi Disciplinary Studies Endorsement Indicator Code   | MultiStudiesEndorsementCode           |
| Native Hawaiian-Pacific Islander                        | NativeHawaiianPacificIslanderCode     |
| Number in Class   | ClassTotalNumber                      |
| On-Ramps Dual Enrollment Indicator Code                 | OnRamps                               |
| Original Entry Date                                     | EntryDate                             |
| Pass/Fail Credit Indicator                              | PassFailCredit                        |
| Peace-Officer-Interaction-Instruction-Met-Date          | POIIMetDate                           |
| Performance Acknowledgment AP IB                        | ApIbType                              |
| Performance Acknowledgment Bilingualism/Biliteracy      | BilingBilitType                       |
| Performance Acknowledgment Certification Licensures     | CertLicType                           |
| Performance Acknowledgment College Readiness Assessment | CollegeAssessType                     |
| Performance Acknowledgment Dual Credit                  | DualCreditType                        |
| Performance Acknowledgment Met Date                     | MetDate                               |
| Personal Graduation Plan                                | PersonalGradPlan                      |
| Placed in Grade   | GradePlaced                           |
| Prior ID  | PriorID                               |
| Promoted to Grade                                       | GradePromoted                         |
| Public Services Endorsement Indicator Code              | PublicServicesEndorsementCode         |
| Quartile  | Quartile                              |
| Participation Indicator Code                            | SpecialEd                             |
| Participation Indicator Code                            | AtRisk                                |
| Participation Indicator Code                            | Migrant                               |
| Participation Indicator Code                            | IEP                                   |
| Participation Indicator Code                            | PersonalGradPlan                      |
| Participation Indicator Code                            | Dyslexia                              |
| Participation Indicator Code                            | FHSPCollegeCareerInstructionIndicator |
| Participation Indicator Code                            | AssociateDegree                       |
| Participation Indicator Code                            | OnRamps                               |
| Participation Indicator Code                            | Section504                            |
| Participation Indicator Code                            | StarofTexas                           |
| Race/Ethnicity (USDE 1997 definitions)                  | Ethnicity                             |
| Section-504-Indicator-Code                              | Section504                            |
| Semester Sequence Code                                  | SemesterSeq                           |
| Session Type  | SessionType                           |
| Special Education Indicator                             | SpecialEd                             |
| Special Explanation Code                                | Explanation                           |
| Speech Requirement Met Date                             | SpeechMetDate                         |
| STAAR Performance Level                                 | PerformanceLevel                      |
| Star-Of-Texas-Indicator-Code                            | StarofTexas                           |
| State   | StateProvince                         |
| STEM Endorsement Indicator Code                         | STEMEndorsementCode                   |
| Student ID  | StudentID                             |
| Student Language Code                                   | StudentLanguage                       |
| Texas Grant Indicator Code                              | TexasGrant                            |
| Title I Part A Indicator                                | TitleI                                |

Total Days Absent  
Total Days Present  
Tx Student Unique ID  
Unschooling Asylee/Refugee  
White  
Withdrawal Course Grade  
Withdrawal Reason Code  
Zip Code

DaysAbsent  
DaysAttended  
StudentUniqueID  
AsyleeRefugeeCode  
WhiteCode  
WithdrawGrade  
WithdrawReason  
PostalCode



## TREx Enumerated Values

Following is a list of the data elements with enumerated values. These are described further in Sections 2 of this manual, as well as included in the schema in Appendix B.

| Code Table Common Name                           | Element XML Short Name         | Location                            |
|--|--------------------------------|-------------------------------------|
| Academic Year                                    | SchoolYear                     | Student Record,<br>AAR-Transcript   |
| Additional Test Name                             | AdditionalTestName             | Student Record                      |
| Address (Street or PO Box)                       | Address                        | Student Record<br>AAR-Transcript    |
| Advanced Measure                                 | AdvancedMeasure                | Student Record;<br>AAR - Transcript |
| Alternative Language Program Code                | AlternativeLanguage            | Student Record                      |
| American Indian- Alaska Native                   | AmericanIndianAlaskaNativeCode | Student Record<br>AAR-Transcript    |
| Arts and Humanities Endorsement Indicator Code   | ArtsEndorsementCode            | Student Record<br>AAR-Transcript    |
| Asian  | AsianCode                      | Student Record<br>AAR-Transcript    |
| Assessment Date                                  | TestDate                       | Student Record<br>AAR-Transcript    |
| Assessment Date Exit Requirement Met             | ExitRequirementMetDate         | Student Record<br>AAR-Transcript    |
| Assessment Grade Level                           | TestLevel                      | Student Record<br>AAR-Transcript    |
| Assessment Name                                  | TestName                       | Student Record                      |
| Assessment Score                                 | TestScore                      | Student Record                      |
| Assessment Score Code                            | TestCode                       | Student Record                      |
| Assessment Subtest                               | SubTestName                    | Student Record                      |
| Assessment Subtest Score                         | SubTestScore                   | Student Record                      |
| Associate Degree Indicator Code                  | AssociateDegree                | Student Record                      |
| At Risk Indicator                                | AtRisk                         | Student Record                      |
| Bilingual Indicator                              | Bilingual                      | Student Record                      |
| Black- African American                          | BlackAfricanAmericanCode       | Student Record<br>AAR-Transcript    |
| Business and Industry Endorsement Indicator Code | BusinessEndorsementCode        | Student Record<br>AAR-Transcript    |
| Campus Awarding Credit                           | CreditCampus                   | Student Record<br>AAR-Transcript    |
| Campus Fax                                       | Fax                            | Student Record                      |
| Campus ID  | SchoolID                       | Student Record<br>AAR-Transcript    |
| Campus Name                                      | SchoolName                     | Student Record<br>AAR-Transcript    |
| Campus Phone                                     | PhoneNumber                    | Student Record<br>AAR-Transcript    |
| Career Tech Ed Indicator                         | CTE                            | Student Record                      |
| Certificate Completion Date                      | CertificateDate                | AAR-Transcript                      |
| City   | City                           | Student Record<br>AAR-Transcript    |
| Class Period                                     | ClassPeriod                    | Student Record                      |
| Class Rank                                       | ClassRank                      | AAR-Transcript                      |

| <b>Code Table Common Name</b>                  | <b>Element XML Short Name</b>         | <b>Location</b>                    |
|--|---------------------------------------|------------------------------------|
| College Board Campus Code                      | CollegeCampusCode                     | AAR-Transcript                     |
| Country  | Country                               | AAR-Transcript                     |
| Course Abbreviation                            | Abbreviation                          | Student Record<br>AAR-Transcript   |
| Course Category                                | SubjectArea                           | Student Record<br>AAR-Transcript   |
| Course Credit                                  | CourseCredit                          | Student Record<br>AAR-Transcript   |
| Course Grade                                   | CourseGrade                           | Student Record<br>AAR-Transcript   |
| Course Grade Average                           | GradeAverage                          | Student Record<br>AAR-Transcript   |
| Course Name                                    | CourseTitle                           | Student Record<br>AAR-Transcript   |
| Course Number                                  | CourseID                              | Student Record<br>AAR-Transcript   |
| Course Semester                                | Semester                              | Student Record<br>AAR-Transcript   |
| Course Teacher                                 | CourseTeacher                         | Student Record                     |
| CPR-Instruction-Met-Date                       | CPRInstructionMetDate                 | Student Record<br>AAR - Transcript |
| Date of Birth                                  | BirthDate                             | Student Record<br>AAR-Transcript   |
| Date of Ranking                                | ClassRankingDate                      | AAR-Transcript                     |
| Discipline Action Code                         | DisciplineActionCode                  | Student Record                     |
| Disciplinary Action End Date                   | DisciplineActionDate                  | Student Record                     |
| Disciplinary Action Number                     | DisciplineActionNum                   | Student Record                     |
| Discipline Action Reason                       | DisciplineActionReason                | Student Record                     |
| District ID                                    | DistrictID                            | Student Record<br>AAR-Transcript   |
| District Name                                  | DistrictName                          | Student Record<br>AAR-Transcript   |
| Dual Language Immersion Assessment Met Date    | AssessmentMetDate                     | Student Record                     |
| Dual Language Immersion Completion School Year | CompletionSchoolYear                  | Student Record                     |
| Dual Language Immersion Language Code          | ImmersionLanguage                     | Student Record                     |
| Dual Language Immersion Year                   | ImmersionYear                         | Student Record                     |
| Dyslexia Indicator Code                        | Dyslexia                              | Student Record                     |
| Economic Disadvantaged Indicator Code          | EconomicDisadvantage                  | Student Record                     |
| ESL Indicator                                  | ESL                                   | Student Record                     |
| Ethnicity Code (USDE 1977 definitions)         | Race                                  | Student Record<br>AAR - Transcript |
| FHSP College Career instruction Indicator Code | FSHPCollegeCareerInstructionIndicator | Student Record                     |
| FHSP Participant Code                          | FHSPParticipantCode                   | Student Record<br>AAR Transcript   |
| FHSP Disting Level Achieve Indicator Code      | FHSPDistingIndicatorCode              | Student Record<br>AAR Transcript   |
| Final Grade Average                            | FinalGradeAverage                     | Student Record<br>AAR Transcript   |

| <b>Code Table Common Name</b>                         | <b>Element XML Short Name</b>      | <b>Location</b>                  |
|---|------------------------------------|----------------------------------|
| First Name  | FirstName                          | Student Record<br>AAR Transcript |
| Foster Care Indicator Code                            | FosterCare                         | Student Record                   |
| Gender  | Gender                             | Student Record<br>AAR Transcript |
| Generation Code                                       | Suffix                             | Student Record<br>AAR Transcript |
| Gifted Talented Indicator                             | GiftedTalented                     | Student Record                   |
| Grade Level   | GradeLevel                         | Student Record                   |
| Grade of Retention (PK-8)                             | GradeRetained                      | Student Record                   |
| Grade Point Average                                   | GPA                                | AAR-Transcript                   |
| Graduation Date                                       | GraduationDate                     | AAR-Transcript                   |
| Graduation Program Type                               | GraduationDiplomaType              | AAR - Transcript                 |
| Hispanic-Latino                                       | HispanicLatinoCode                 | Student Record<br>AAR Transcript |
| Home Language Code                                    | HomeLanguage                       | Student Record                   |
| Home Language Survey Date Administered                | HomeLanguageSurveyDateAdministered | Student Record                   |
| Homeless Indicator                                    | Homeless                           | Student Record                   |
| IBC Reimbursement Indicator                           | IBCReimbursement                   | Student Record                   |
| IEP (Individualized Education Program) Indicator      | IEP                                | Student Record                   |
| Immunization Date                                     | ImmunizationDate                   | Student Record                   |
| Immunization Dose                                     | ImmunizationDose                   | Student Record                   |
| Immunization Name                                     | ImmunizationCode                   | Student Record                   |
| Individual Graduation Committee Review Code           | IGCGradReview                      | Student Record                   |
| Last Date of Attendance                               | ExitDate                           | Student Record                   |
| Last Name   | LastName                           | Student Record<br>AAR-Transcript |
| Last Withdrawal Date                                  | WithdrawDate                       | Student Record                   |
| LEP (Limited English Proficiency) Indicator           | LEP                                | Student Record                   |
| Local Student ID                                      | LocalID                            | Student Record<br>AAR-Transcript |
| Middle Name   | MiddleName                         | Student Record<br>AAR-Transcript |
| Migrant Indicator                                     | Migrant                            | Student Record                   |
| Military Connected                                    | MilitaryConnected                  | Student Record                   |
| Multi-Disciplinary Studies Endorsement Indicator Code | MultiStudiesEndorsementCode        | Student Record<br>AAR Transcript |
| Native Hawaiian-Pacific Islander                      | NativeHawaiianPacificIslanderCode  | Student Record<br>AAR Transcript |
| Number in Class                                       | ClassTotalNumber                   | AAR-Transcript                   |
| On-Ramps Dual Enrollment Indicator Code               | OnRamps                            | Student Record                   |
| Original Entry Date                                   | EntryDate                          | Student Record                   |
| Pass/Fail Credit Indicator                            | PassFailCredit                     | Student Record<br>AAR-Transcript |
| Peace-Officer-Interaction-Instruction-Met-Date        | POIMetDate                         | Student Record<br>AAR-Transcript |

| <b>Code Table Common Name</b>                           | <b>Element XML Short Name</b> | <b>Location</b>                  |
|---|-------------------------------|----------------------------------|
| Performance Acknowledgment AP IB                        | AplbType                      | Student Record<br>AAR-Transcript |
| Performance Acknowledgment Bilingualism/Biliteracy      | BilingBilitType               | Student Record<br>AAR-Transcript |
| Performance Acknowledgment Certification Licensures     | CertLicType                   | Student Record<br>AAR-Transcript |
| Performance Acknowledgment College Readiness Assessment | CollegeAssessType             | Student Record<br>AAR-Transcript |
| Performance Acknowledgment Dual Credit                  | DualCreditType                | Student Record<br>AAR-Transcript |
| Performance Acknowledgment Met Date                     | MetDate                       | Student Record<br>AAR-Transcript |
| Personal Graduation Plan                                | PersonalGradPlan              | Student Record                   |
| PK Eligible Previous Year Indicator Code                | PKeligiblePreiousYear         | Student Record                   |
| Placed in Grade   | GradePlaced                   | Student Record                   |
| Post-Secondary Certification Licensure Earned           | IBCEarned                     | Student Record                   |
| Prior ID  | PriorID                       | Student Record                   |
| Promoted to Grade                                       | GradePromoted                 | Student Record                   |
| Public Services Endorsement Indicator Code              | PublicServicesEndorsementCode | Student Record<br>AAR Transcript |
| Quartile  | Quartile                      | AAR - Transcript                 |
| SAT-ACT-Reimbursement Indicator                         | SATACTReimbursement           | Student Record                   |
| Section-504-Indicator-Code                              | Section504                    | Student Record                   |
| Semester Sequence Code                                  | SemesterSeq                   | Student Record                   |
| Session Type  | SessionType                   | Student Record<br>AAR-Transcript |
| Special Education Indicator                             | SpecialEd                     | Student Record                   |
| Special Explanation Code                                | Explanation                   | AAR-Transcript                   |
| Speech Requirement Met Date                             | SpeechMetDate                 | Student Record<br>AAR-Transcript |
| STAAR Performance Level                                 | PerformanceLevel              | Student Record<br>AAR Transcript |
| Star-Of-Texas-Indicator-Code                            | StarofTexas                   | Student Record                   |
| State   | StateProvince                 | Student Record<br>AAR Transcript |
| STEM Endorsement Indicator Code                         | STEMEndorsementCode           | Student Record<br>AAR Transcript |
| Student ID  | StudentID                     | Student Record<br>AAR Transcript |
| Student Language Code                                   | StudentLanguage               | Student Record                   |
| Texas Grant Indicator Code                              | TexasGrant                    | AAR - Transcript                 |
| Title I Part A Indicator                                | TitleI                        | Student Record                   |
| Total Days Absent                                       | DaysAbsent                    | Student Record                   |
| Total Days Present                                      | DaysAttended                  | Student Record                   |
| Tx Student Unique ID                                    | StudentUniqueID               | Student Record                   |
| Unschooled Asylee/Refugee                               | AsyleeRefugeeCode             | Student Record                   |
| White   | WhiteCode                     | Student Record<br>AAR Transcript |
| Withdrawal Course Grade                                 | WithdrawGrade                 | Student Record                   |
| Withdrawal Reason Code                                  | WithdrawReason                | Student Record                   |

| <b>Code Table Common Name</b> | <b>Element XML Short Name</b> | <b>Location</b>                  |
|-------------------------------|-------------------------------|----------------------------------|
| Zip Code                      | PostalCode                    | Student Record<br>AAR-Transcript |

## Hierarchy of XML Elements

- TRExStudentRecords
  - TRExStudentRecord (1 ... n)
    - StudentIdentificationType (1)
      - StudentUniqueID (1)
      - Name (1)
        - FirstName (1)
        - MiddleName (0 or 1)
        - LastName (1)
        - Suffix (0 or 1)
    - PriorID (0 or 1)
    - LocalID (0 or 1)
    - Address (0 or 1)
      - Address (0 or 1)
      - City (0 or 1)
      - StateProvince (0 or 1)
      - Country (0 or 1)
      - PostalCode (0 or 1)
    - Parent (0 ... 9)
      - Name (1)
        - FirstName (1)
        - MiddleName (0 or 1)
        - LastName (1)
        - Suffix (0 or 1)
    - StudentDemographic (1)
      - Gender (1)
      - Race (0 or 1)
      - Ethnicity (0 or 1)
      - BirthDate (1)
      - HomeLanguage (0 or 1)
      - StudentLanguage (0 or 1)
      - HomeLanguageSurveyAdministered (0 or 1)
      - Migrant (0 or 1)
      - Homeless (0 or 1)
      - Dyslexia (0 or 1)
      - MilitaryConnected (0 or 1)
      - FosterCare(0 or 1)
      - AsyleeRefugeeCode (0 or 1)
    - School (1)
      - SchoolID (1)
      - SchoolName (1)
      - DistrictID (1)
      - DistrictName (0 or 1)
      - Address (0 or 1)
        - Address (0 or 1)
        - City (0 or 1)
        - StateProvince (0 or 1)
        - Country (0 or 1)
        - PostalCode (0 or 1)
      - PhoneNumber (1)
      - Fax (0 or 1)
    - Enrollment (1)
      - GradeLevel (1)
      - EntryDate (0 or 1)

ExitDate (0 or 1)  
WithdrawDate (0 or 1)  
WithdrawReason (0 or 1)  
GradePlaced (0 or 1)  
GradePromoted (0 or 1)  
GradeRetained (0 or 1)  
SpecialPrograms (0 or 1)  
LEP (0 or 1)  
AlternativeLanguage (0 or 1)  
DualLanguageImmersion (1)  
ImmersionYear (1)  
ImmersionLanguage (0 or 1)  
AssessmentMetDate (0 or 1)  
CompletionSchoolYear (0 or 1)  
EconomicDisadvantaged (0 or 1)  
AtRisk (0 or 1)  
TitleI (0 or 1)  
SpecialEd (0 or 1)  
IEP (0 or 1)  
Bilingual (0 or 1)  
ESL (0 or 1)  
GiftedTalented (0 or 1)  
CTE (0 or 1)  
PersonalGradPlan (0 or 1)  
Assessment (0 ... n)  
TestName (0 or 1)  
or  
AdditionalTestName (0 or 1)  
TestLevel (0 or 1)  
TestDate (0 or 1)  
ExitRequirementMetDate (0 or 1)  
TestScore (0 or 1)  
TestCode (0 or 1)  
PerformanceLevel(0 or 1)  
AssessmentSubTest (0 ... n)  
SubTestName (0 or 1)  
SubTestScore (0 or 1)  
Attendance (0 or 1)  
DaysAttended (0 or 1)  
DaysAbsent (0 or 1)  
Immunization (0 ... n)  
ImmunizationCode (0 or 1)  
ImmunizationDate (0 or 1)  
ImmunizationDose (0 or 1)  
DisciplineAction (0 ... n)  
DisciplineActionDate (0 or 1)  
DisciplineActionNum (0 or 1)  
DisciplineActionCode (0 or 1)  
DisciplineActionReason (0 or 1)  
AcademicStatus (0 or 1)  
GraduationDate (0 or 1)  
SpeechMetDate (0 or 1)  
GraduationDiplomaType (0 or 1)  
CertificateDate (0 or 1)  
TexasGrant (0 or 1)  
DistinguishedAchievements (0 or 1)

AdvancedMeasure (0...4)  
FHSPParticipantCode (0 or 1)  
FHSPDistingIndicatorCode (0 or 1)  
STEMEndorsementCode (0 or 1)  
BusinessEndorsementCode (0 or 1)  
PublicServiceEndorsementcode (0 or 1)  
ArtsEndorsementCode (0 or 1)  
MultiStudiesEndorsementCode (0 or 1)  
DualCreditType (0... n)  
DualCreditCode (1)  
    MetDate (1)  
BilingBilitType (0... n)  
BillingBilitCode (1)  
    MetDate (1)  
CollegeAssesType (0... n)  
CollegeAssesCode (1)  
    MetDate (1)  
ApIbType (0... n)  
ApIbCode(1)  
    MetDate (1)  
CertLicType (0... n)  
CertLicCode (1)  
    MetDate (1)  
IGCGradReview (0 or 1)  
FHSPCollegeCareerInstructionIndicator (0 or 1)  
AssociateDegree (0 or 1)  
OnRamps (0 or 1)  
Section504  
POIIMetDate  
CPRMetDate(0 or 1)  
StarofTexas

CurrentCoursework (0 or 1)  
    Course (1 ... n)  
        CourseTitle (0 or 1)  
        CourseID (0 or 1)  
        Abbreviation (0 or 1)  
        Semester (0 or 1)  
        ClassPeriod (0 or 1)  
        SubjectArea (0 or 1)  
        CourseGrade (0 ... n)  
        WithdrawGrade (0 or 1)  
        GradeAverage (0 or 1)  
        CourseCredit (0 or 1)  
        PassFailCredit (0 or 1)  
        Explanation (0 ... n)  
        CourseTeacher (0 or 1)  
        CreditCampus (0 or 1)  
        SemesterSeq (0 or 1)  
        FinalGradeAverage (0 or 1)  
    SchoolYear (1)  
    GradeLevel (1)

AcademicSession (0 ... n)  
    SchoolYear (1 ... n)  
    GradeLevel (1)  
    Course (1 ... n)



CourseTitle (0 or 1)  
CourseID (0 or 1)  
Abbreviation (0 or 1)  
Semester (0 or 1)  
ClassPeriod (0 or 1)  
SubjectArea (0 or 1)  
CourseGrade (0 ... n)  
WithdrawGrade (0 or 1)  
GradeAverage (0 or 1)  
CourseCredit (0 or 1)  
PassFailCredit (0 or 1)  
Explanation (0 ... n)  
CourseTeacher (0 or 1)  
CreditCampus (0 or 1)  
SemesterSeq (0 or 1)  
FinalGradeAverage (0 or 1)  
AcademicSummary (0 or 1)  
GPA (0 or 1)  
ClassTotalNumber (0 or 1)  
ClassRank (0 or 1)  
ClassRankingDate (0 or 1)  
Quartile (0 or 1)  
CollegeCampusCode (0 or 1)