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Introduction

IPEDS is the core postsecondary education data collection program for NCES. Data on enrollment, program completions, graduation rates, faculty, staff, finances, institutional prices, and student financial aid are collected from all primary providers of postsecondary education in the United States.

The purpose of the 12-Month Enrollment component of IPEDS is to collect unduplicated student enrollment counts and instructional activity data in postsecondary institutions for an entire 12-month period. 12-month enrollment data are collected by level of student and by race/ethnicity and gender. Instructional activity is collected as total credit and/or contact hours delivered by institutions at the undergraduate and graduate level. Using the instructional activity data reported, a full-time equivalent (FTE) student enrollment at the undergraduate and graduate level is estimated.

Data are collected for the IPEDS surveys via web forms or data uploads. In an effort to promote standardization and reuse within the postsecondary community, IPEDS teamed with Bruce Marton of the University of Texas at Austin to produce XML schemas for each of the IPEDS student-based collections. Bruce Marton is a past steering committee member of the Postsecondary Electronic Standards Council (PESC) and one of the key contributors and developers of the PESC College Transcript and High School Transcript XML schemas.

As a result, institutions now have two methods available for uploading data: via the flat file format previously employed or by uploading XML files that adhere to the XML schemas described in this document. An XML schema describes the format and contents of an XML data file. An XML schema defines what the data elements should be named within the XML data file, what kind of data are expected (string or integer, for example), whether certain data are required or optional, whether data elements may be repeated, and the like. In effect, the XML schema validates that the XML data are in the right structure and format.

The intent of this guide is to help users create a process to provide data in XML format for the 12-Month Enrollment collection in IPEDS. The schemas described in this document have been approved by PESC.

Note: Users are strongly advised to consult the 12-Month Enrollment Instructions available at https://surveys.nces.ed.gov/ipeds/VisIndex.aspx before proceeding.

Organization and Format

Each schema in this document is described using diagrams and an accompanying table to explain each element or box within the diagram. If there is a “+” on the right-hand side of the element, the element is expandable; it branches into more elements (called children).

For example, the diagram above shows the element TwelveMonthEnrollment. This is an expandable element that has already been expanded (it has a “−” rather than a “+” on the right edge of
The children elements of 12MonthEnrollment are TransmissionData and EnrollmentByInstitution. Both children are expandable.

Each element’s name is important because the name serves as the start and end tags in XML. For example, in basic view, the above diagram would look like this in XML:

```xml
<TwelveMonthEnrollment>
  <TransmissionData></TransmissionData>
  <EnrollmentByInstitution></EnrollmentByInstitution>
</TwelveMonthEnrollment>
```

The start tag is `<TwelveMonthEnrollment>` and the end tag is `</TwelveMonthEnrollment>`, which has a slash preceding its name. Between each start and end tag are either actual data or more start and end tags. Every start tag must have a corresponding end tag.

Some elements have a “type” associated with them. A type is either a simple type, meaning that it just describes the data format (e.g., integer, decimal, or string), or a complex type, meaning that it is a set of other elements and/or data fields. In either case, a “type” is a reusable data structure that can be utilized in a variety of situations.

The TransmissionData element seen in the above diagram has a type of “core:TransmissionData”. Because it is a type, any element of the same type seen throughout any of the schemas will have the same underlying structure. The word “core:” that precedes the type name indicates that this type is identified in the core library of PESC-approved standards. This means that the PESC “core” library contains the rules regarding this structure of data. All sectors (IPEDS, College Transcript, FSA, etc.) may refer to any of the types in the core library; in fact, they are encouraged to do so whenever possible to facilitate standardization of data. If the type name had been preceded by “IPEDS:” that would indicate that the rules regarding this structure are being maintained by the IPEDS sector library rather than the core library and that it pertains mainly to IPEDS use.

The connector between TwelveMonthEnrollment and its three sub-elements is called a “sequence” connector. It indicates that the elements must be provided in the order shown. Below is a sequence connector:

![Sequence Connector]

Note in the diagram on the previous page that each line between the sequence connector and the sub-elements of TwelveMonthEnrollment —TransmissionData and EnrollmentByInstitution—is a solid line (rather than a dashed line), which indicates that these are required elements. The NoteMessage element has a dashed line running from TwelveMonthEnrollment, indicating it is an optional element. Therefore, your XML file must contain both a TransmissionData element and an EnrollmentByInstitution element, but the NoteMessage element does not need to be included.

Upon expanding the TransmissionData element, the following diagram is shown:
Note that the NoteMessage element is optional, as the line connecting to the sequence connector is dashed. However, there is also a notation of “0...∞”, which indicates that there is no limit to the number of times this element may appear. The elements of the schema are presented in this guide in a top-down fashion, starting with the top-level elements and working toward describing each sub-element and sub-sub-element in turn.

The table under each diagram has links within the description of each element to the next level element, if applicable.

Each table has four columns:

1. **Tag name:** This is the name of the data element grouping or field that will appear in the XML file.

2. **Usage:** This column indicates whether the data element or field is required or optional in the instance document. If a required field is not included in the instance document, the transcript will normally be rejected by the receiving institution or agency’s computer program (XML Parser).

3. **Description:** This is a brief description of the data included with a particular XML tag name. If the element is of a certain type, there will be instruction “See xxxxType.”

4. **Format:** This column shows the minimum and maximum number of occurrences of the data element. It also shows the minimum and maximum length allowable for a field, if that field does not have enumerated values and is not a special type of field, such a date field.

   - **minOcc 1** indicates a required field; it must have at least one occurrence in the instance document.
   - **minOcc 0** indicates an optional field.
   - **maxOcc** followed by a number or symbol specifies the maximum number of times that that element may occur in an instance document at a particular position. For example, “maxOcc 5” indicates that the field may occur no more than 5 times in a given position of the instance document. “maxOcc ∞” indicates that a field may occur an unlimited number of times in the instance document. However, the use of an excessive number of occurrences puts a burden on the receiving agency or institution, so they should be limited to the fewest possible.
   - **minLength** indicates the minimum number of characters that a field must contain.
   - **maxLength** indicates the maximum number of characters that a field may contain.
**Enumeration** is used to list the allowable values that may be used in the instance document. The values must be used exactly as shown in this column. When the values are enumerated in this column, “minLength” and “maxLength” will not be indicated and are not appropriate.

After the diagram and subsequent table describing the diagram, an example of the XML needed to produce the diagram is shown, if logistically possible. Alternately, there may be a link to text within appendix A to see an example of the XML code.

NOTE: In diagrams of "types," the first element shown in the diagram is the type name as seen in the following TransmissionDataType example:

![Diagram](image)

The diagram shows TransmissionDataType as the first named element. However, when the type is used within the XML document, the name of the element that uses the type will be listed in the start and end tags. For example, one element that uses the TransmissionDataType is TransmissionData. The XML code would look like this:

```xml
<TransmissionData>
    <DocumentID>07242008_199999</DocumentID>
    <CreatedDateTime>2001-12-17T09:30:47.0Z</CreatedDateTime>
    <TransmissionType>Original</TransmissionType>
    <DocumentType>IPEDS</DocumentType>
</TransmissionData>
```

After the XML files are created based upon the schemas described herein, the XML file should be validated. There are many tools to do the validation, but all will require the following schema files to be available:

1) The specific schema file your XML file is based upon, such as TwelveMonthEnrollment_v2.0.0.xsd
2) The IPEDS sector library’s core schema: EducationStatistics_v2.0.0.xsd
3) The PESC core schema: CoreMain_v1.12.0.xsd

The .xsd files are available for download from the PESC website under “Standards and Workgroups,” — then choose “PESC Approved Standards.”
The purpose of the 12-Month Enrollment component of IPEDS is to collect unduplicated student enrollment counts and instructional activity data in postsecondary institutions for an entire 12-month period (July 1 – June 30), as opposed to the fall snapshot on enrollment provided in the Fall Enrollment component. Institutions report an unduplicated headcount for the total number of students enrolled for credit by level, gender, and race/ethnicity. Institutions also report the total instructional activity for the same 12-month period of July 1 – June 30 for both undergraduate and graduate programs. Instructional activity data are reported in units of contact hours (sometimes referred to as clock hours) or credit hours. Using the instructional activity data reported, a full-time equivalent (FTE) student enrollment at the undergraduate and graduate level is estimated. For institutions that enroll doctor’s degree-professional practice students, an FTE for these students is reported separately.

A full-size diagram of 12MonthEnrollment4Year_v2.1.0.xsd can be found in 12MonthEnrollment4Year_v2.1.0_diagram.pdf. To save space, each type is expanded just once. For example, AidDisbursementCountType is used to define many elements, but it is only expanded once in the diagram.

To print out the 12MonthEnrollment4Year_diagram_v2.1.0.pdf, it is suggested that you modify the Page Handling section on the print tab, as shown in the following screen shot. Note that “Tile Large Pages” is selected, and the Tile Scale is set to 40 percent.
TwelveMonthEnrollment4Year

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>TwelveMonthEnrollment4Year</td>
<td>Required</td>
<td>Root element of XML document for 12MonthEnrollment4Year_v2.0.0.xsd.</td>
<td>minOcc 1, maxOcc 1</td>
</tr>
<tr>
<td>TransmissionData</td>
<td>Required</td>
<td>Routing and header information. Uses TransmissionDataType.</td>
<td>minOcc 1, maxOcc 1</td>
</tr>
<tr>
<td>EnrollmentByInstitution</td>
<td>Required</td>
<td>A group of elements which details counts of student enrollment over a 12-month reporting period, subdivided by categories such as student level, race/ethnicity, and gender. See EnrollmentByInstitution.</td>
<td>minOcc 1, maxOcc 1, repeatable as needed</td>
</tr>
<tr>
<td>NoteMessage</td>
<td>Optional</td>
<td>Additional information about the data.</td>
<td>Maxlength=80, minOcc 0, maxOcc 1</td>
</tr>
</tbody>
</table>

Code example:

Please note that as the TwelveMonthEnrollment is the "root" element of the XML document, extra header information is included in this code illustration as it would need to exist in the final XML file.

```xml
<EN12_4:TwelveMonthEnrollment4Year
txi:schemaLocation="urn:org:pesc:message:12MonthEnrollment4Year:v2.1.0 12MonthEnrollment4Year_v2.1.0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:EN12_4="urn:org:pesc:message:12MonthEnrollment4Year_v2.1.0">
  <TransmissionData>
    
    
  </TransmissionData>
  <EnrollmentByInstitution>
    <Institution>
      <IPEDSUnitID>999999</IPEDSUnitid>
    </Institution>
  </EnrollmentByInstitution>

</EN12_4:TwelveMonthEnrollment4Year>
```
TransmissionDataType

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>DocumentID</td>
<td>Required</td>
<td>File transmission date and time stamp with additional unique qualifying characters such as UNITID of the sending institution.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>CreatedDateTime</td>
<td>Required</td>
<td>Date and time stamp with the document was created.</td>
<td>Xs:datetime ccyy-mm-dd hh:mm:ss</td>
</tr>
<tr>
<td>TransmissionType</td>
<td>Required</td>
<td>Nature of the transmission.</td>
<td>Enumeration: Original Replace</td>
</tr>
<tr>
<td>DocumentType</td>
<td>Required</td>
<td>Nature of the document.</td>
<td>Enumeration: IPEDS</td>
</tr>
<tr>
<td>NoteMessage</td>
<td>Optional</td>
<td>Additional information about the transmission.</td>
<td>Maxlength=80 minOcc 0 maxOcc ∞</td>
</tr>
</tbody>
</table>

Code example:

```xml
<TransmissionData>
  <DocumentID>10072008100001</DocumentID>
  <CreatedDateTime>10/07/20 08 10:04am</CreatedDateTime>
  <TransmissionType>Original</TransmissionType>
  <DocumentType>IPEDS</DocumentType>
  <NoteMessage>This is the 1st attempt of submitting this file</NoteMessage>
</TransmissionData>
```
EnrollmentByInstitution

This diagram shows the overall structure of the data that are expected to be submitted in the 12MonthEnrollment4Year XML file. The table below explains each element.

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institution</td>
<td>Required</td>
<td>The identifying ID (UNITID) and other optional information about the institution. Uses OrganizationType.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>UnduplicatedCounts</td>
<td>Required</td>
<td>A structured description of a group of elements which give counts of student enrollment over a 12-month reporting period, by student level, race/ethnicity, and gender, making sure to count each student only once, even though they might be enrolled in more than one semester during the reporting period. See UnduplicatedCounts for further information.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>InstructionalActivity</td>
<td>Required</td>
<td>A structured description of the total number of credit hours or contact hours students were enrolled, by level of offering (undergraduate and graduate). See InstructionalActivityType for further information.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>NoteMessage</td>
<td>Optional</td>
<td>Additional information about the transmission</td>
<td>MaxLength=80 minOcc 0 maxOcc ∞</td>
</tr>
</tbody>
</table>

Code example:

Please see the XML code example shown in appendix A.
OrganizationType

Used by elements:

- Institution

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPEDSUnitID</td>
<td>Required</td>
<td>The unique identifier assigned to the institution by IPEDS.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>OrganizationName</td>
<td>Optional</td>
<td>The name of the institution. This is only for file documentation use. The name of the institution will not be uploaded to IPEDS. Uses core:OrganizationNameType.</td>
<td>minOcc 0 maxOcc ∞ repeatable as needed</td>
</tr>
<tr>
<td>NoteMessage</td>
<td>Optional</td>
<td>Additional information about the transmission.</td>
<td>maxlen 80 minOcc 0 maxOcc ∞</td>
</tr>
</tbody>
</table>

Code example:

```xml
<Institution>
    <IPEDSUnitID>124816</IPEDSUnitID>
    <OrganizationName>Globeco Business Institute</OrganizationName>
</Institution>
```
UnduplicatedCounts

Used by elements:
- EnrollmentByInstitution

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>UndergraduateEnrollment</td>
<td>Required</td>
<td>Race/gender distribution for students enrolled in undergraduate programs. Uses RaceGenderDistributionType.</td>
<td>minOcc: 1, maxOcc: 1</td>
</tr>
<tr>
<td>GraduateEnrollment</td>
<td>Required</td>
<td>Race/gender distribution for students enrolled in graduate programs. Uses RaceGenderDistributionType.</td>
<td>minOcc: 1, maxOcc: 1</td>
</tr>
</tbody>
</table>
RaceGenderDistributionType

RaceGenderDistributionType is a structured description of a population broken down by race and gender categories giving aggregate counts for each race/gender combination.

Used by elements:

- UndergraduateEnrollment
- GraduateEnrollment

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>HispanicAnyRace</td>
<td>Optional</td>
<td>A gender breakdown of persons of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Uses GenderCountType.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>Tag name</td>
<td>Usage</td>
<td>Description</td>
<td>Format</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>AmericanIndianOrAlaskaNative</td>
<td>Optional</td>
<td>A gender breakdown of persons having origins in any of the original peoples of North and South America (including Central America) who maintain cultural identification through tribal affiliation or community attachment. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>Asian</td>
<td>Optional</td>
<td>A gender breakdown of persons having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian Subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>BlackOrAfricanAmerican</td>
<td>Optional</td>
<td>A gender breakdown of persons having origins in any of the black racial groups of Africa. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>NativeHawaiianOrPacificIslander</td>
<td>Optional</td>
<td>A gender breakdown of persons having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>White</td>
<td>Optional</td>
<td>A gender breakdown of persons having origins in any of the original peoples of Europe, the Middle East, or North Africa. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>TwoOrMoreRaces</td>
<td>Optional</td>
<td>A gender breakdown of persons who claim two or more races, not previously counted in another race or ethnicity count. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>NonresidentAlien</td>
<td>Optional</td>
<td>A gender breakdown of all nonresident aliens regardless of race. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>RaceEthnicityUnknown</td>
<td>Optional</td>
<td>A gender breakdown of all persons whose race and ethnicity are not known. Uses GenderCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
<tr>
<td>TotalAllRaceEthnicity</td>
<td>Do not include on import file</td>
<td>A gender breakdown of all students regardless of race/ethnicity. Uses GenderCountType. Will be generated on export file.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
</tbody>
</table>

Comment:

**Code example:**

```xml
<UndergraduateEnrollment>
  <HispanicAnyRace>
    <CountMale>2</CountMale>
    <CountFemale>5</CountFemale>
  </HispanicAnyRace>
  <AmericanIndianOrAlaskaNative>
    <CountMale>2</CountMale>
    <CountFemale>5</CountFemale>
  </AmericanIndianOrAlaskaNative>
</UndergraduateEnrollment>
```
GenderCountType

Used by elements:

- HispanicAnyRace
- AmericanIndianOrAlaskaNative
- Asian
- BlackOrAfricanAmerican
- NativeHawaiianOrPacificIslander
- White
- TwoOrMoreRaces
- NonresidentAlien
- RaceEthnicityUnknown
- TotalAllRaceEthnicity

GenderCountType is a count of males and females within a specific category such as race or age.

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>CountMale</td>
<td>Required</td>
<td>The number of males within a category.</td>
<td>Integer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uses TotalCountType.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>CountFemale</td>
<td>Required</td>
<td>The number of females within a category.</td>
<td>Integer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uses TotalCountType.</td>
<td>minOcc 1 maxOcc 1</td>
</tr>
<tr>
<td>TotalCountAllGenders</td>
<td>Optional</td>
<td>The total number of males and females within a category.</td>
<td>Integer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TotalCountType.</td>
<td>minOcc 0 maxOcc 1</td>
</tr>
</tbody>
</table>

Comment:

Code example:

(HispanicAnyRace is an element of RaceGenderDistributionType that uses type GenderCountType.)

```xml
<HispanicAnyRace>
  <CountMale>1</CountMale>
  <CountFemale>2</CountFemale>
  <TotalCountAllGenders>3</TotalCountAllGenders>
</HispanicAnyRace>
```
TotalCountType

Used by elements:

- CountMale
- CountFemale
- TotalCountAllGenders
- UndergraduateContactHours
- UndergraduateCreditHours
- GraduateCreditHours
- UndergraduateFTE
- GraduateFTE
- DoctorsProfessionalFTE

TotalCountType is an integer with values from 0 to 999999999 and is used to indicate a count of individuals within a specific category throughout the IPEDS XML schemas.
### InstructionalActivityType

**Used by elements:**
- InstructionalActivity

<table>
<thead>
<tr>
<th>Tag name</th>
<th>Usage</th>
<th>Description</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>UndergraduateContactHours</td>
<td>Optional</td>
<td>The sum total of all undergraduate contact hours for which students enrolled during the July 1 – June 30 reporting period. Uses TotalCountType.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>UndergraduateCreditHours</td>
<td>Optional</td>
<td>The sum total of all undergraduate credit hours for which students enrolled during the July 1 – June 30 reporting period. Uses TotalCountType.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>GraduateCreditHours</td>
<td>Optional</td>
<td>The sum total of all graduate credit hours (excluding activity for doctor’s degree-professional practice students) for which students enrolled during the July 1 – June 30 reporting period. Uses TotalCountType.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>UndergraduateFTE</td>
<td>Do not include on import file</td>
<td>The number of full-time-equivalent undergraduate students based on the total sum of the undergraduate credit hours for which undergraduate students have enrolled during the July 1 – June 30 reporting period. Uses TotalCountType. Will be generated on export file.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>GraduateFTE</td>
<td>Do not include on import file</td>
<td>The number of full-time-equivalent graduate students (excluding FTE for doctor’s degree-professional practice students) based on the total sum of the graduate credit hours for which graduate students have enrolled, within a July 1 – June 30 reporting time period. Uses TotalCountType. Will be generated on export file.</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
<tr>
<td>DoctorsProfessionalFTE</td>
<td>Optional</td>
<td>The total number of all full-time-equivalent doctor’s degree-professional practice students enrolled during</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>maxOcc 1</td>
</tr>
</tbody>
</table>
the July 1 – June 30 reporting period. Uses `TotalCountType`.

<table>
<thead>
<tr>
<th>Code example:</th>
</tr>
</thead>
</table>

```xml
<InstructionalActivity>
    <UndergraduateContactHours>0</UndergraduateContactHours>
    <UndergraduateCreditHours>494830</UndergraduateCreditHours>
    <GraduateCreditHours>51502</GraduateCreditHours>
    <DoctorsProfessionalFTE>45</DoctorsProfessionalFTE>
</InstructionalActivity>
```
Appendix A—12MonthEnrollment4Year_v2.1.0 XML Example

```xml
<EN12_4:TwelveMonthEnrollment4Year  xsi:schemaLocation="urn:org:pesc:message:12MonthEnrollment4Year:v2.1.0
12MonthEnrollment4Year_v2.1.0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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