CEDS Connect

Connection Title: Gateway Course Completion: Percentage of first-year college students who complete college-level introductory math and English courses within their first year

Selected Descriptors:
Students, Teachers, School Personnel->College Graduates
Curriculum Organization->Curriculum
Students, Teachers, School Personnel->Graduate Students
Educational Levels, Degrees, and Organizations->Postsecondary Education
Education-to-Workforce (E-W) Indicator Framework ->EQ18: Early momentum in postsecondary education

Author: Education-to-Workforce Framework Collaborators Group

Location: More Than One State

Source for CEDS Connection Information: Education-to-Workforce Indicator Framework (https://educationtoworkforce.org/)

Description of CEDS Connection:

This Connection identifies the CEDS elements needed to measure the percentage of first-year college students who complete college-level introductory math and English courses within their first year and includes the recommended analysis criteria. This Connection supports the Education-to-Workforce Indicator Framework.

Go Further with this Connection

You can use this Connection with your own data system. Click on the myConnect logo to apply the elements from your shared map to this Connection.

▶ **Data Elements**

Metric

CEDS Elements:	Elements Not Currently in CEDS:
A. Postsecondary -> Course Section -> Course Credit Level Type	
B. Postsecondary -> Course Section -> Course Level Type	
C. Postsecondary -> PS Institution -> Directory -> Office of Postsecondary Education Identifier	
D. Postsecondary -> PS Student -> Academic Record -> Number of Credits Earned	
E. Postsecondary -> PS Student -> Identity -> Student Identification System	
F. Postsecondary -> PS Student -> Identity -> Student Identifier	
G. Postsecondary -> PS Student -> Institution Enrollment -> Enrollment Entry Date	
H. Postsecondary -> PS Student -> Institution Enrollment -> Enrollment Exit Date	
I. Postsecondary -> PS Student -> Institution Enrollment -> Entry Date into Postsecondary	
J. Postsecondary -> PS Student -> Institution Enrollment -> First Time Postsecondary Student	
K. Postsecondary -> PS Student -> Term Enrollment -> Academic Term Designator	
L. Postsecondary -> PS Student -> Term Enrollment -> Academic Year Designator	
M. Postsecondary -> PS Student -> Term Enrollment -> Postsecondary Enrollment Status	

Disaggregates

CEDS Elements:	Elements Not Currently in CEDS:
A. Adult Education -> AE Student -> Status -> Dislocated Worker Status	A. Credit Earned Date
B. Adult Education -> AE Student -> Status -> Low-income Status	
C. K12 -> K12 Student -> Discipline -> Disciplinary Action End Date	
D. K12 -> K12 Student -> Discipline -> Disciplinary Action Start Date	
E. K12 -> K12 Student -> Discipline -> Disciplinary Action Taken	
F. K12 -> K12 Student -> English Learner -> English Learner Status	
G. K12 -> K12 Student -> English Learner -> Program Participation Exit Date	
H. K12 -> K12 Student -> English Learner -> Program Participation Start Date	
I. Postsecondary -> PS Institution -> Directory -> Control of Institution	
J. Postsecondary -> PS Institution -> Directory -> Level of Institution	
K. Postsecondary -> PS Student -> Demographic -> Birthdate	
L. Postsecondary -> PS Student -> Disability -> Disability Status	
M. Postsecondary -> PS Student -> Disability -> Section 504 Status	
N. Postsecondary -> PS Student -> Homeless -> Homelessness Status	
O. Postsecondary -> PS Student -> Homeless -> Status End Date	
P. Postsecondary -> PS Student -> Homeless -> Status Start Date	
Q. Postsecondary -> PS Student -> Institution Enrollment -> Classification of Instructional Program Code	
R. Postsecondary -> PS Student -> Institution Enrollment -> Degree or Certificate Seeking Student	
S. Postsecondary -> PS Student -> Institution Enrollment -> Enrollment Entry Date	
T. Postsecondary -> PS Student -> Institution Enrollment -> Enrollment Exit Date	
U. Postsecondary -> PS Student -> Language -> ISO 639-3	

Language Code
V. Postsecondary -> PS Student -> Language -> Language Type
W. Postsecondary -> PS Student -> Status -> Military Connected
Student Indicator
X. Postsecondary -> PS Student -> Term Enrollment ->
Postsecondary Enrollment Status
Y. Postsecondary -> PS Student -> Term Enrollment ->
Postsecondary Enrollment Type

▸ **Analysis Recommendations**

General Connection Information

CEDS elements are shown in ***bold/italicized*** font.
This metric is part of the Education-to-Workforce (E-W) Indicator Framework, specifically "Outcomes and milestones" which pertain to key outcomes and milestones along the E-W continuum that are strongly associated with individuals achieving economic mobility and security.

This metric is a measurement for a key indicator, "Gateway Course Completion," and measures whether students who are first-year college students have completed college-level introductory math and English courses within their first year.

Calculating a Response

NOTE: if a student is simultaneously enrolled or changes institutions between terms, you will need to combine those cross-institutional records (or pick up transfer credits).

Use the following CEDS elements to determine the school year for which the data will be measured:
1. ***Academic Year Designator*** = 2023 and ***Academic Term Designator*** = Summer, and/or
2. ***Academic Year Designator*** = 2024 and ***Academic Term Designator*** = Fall, Spring, Summer
3. Define your first year. It may cross academic years so adjust them as to how your organization calculates first year.

Use the following CEDS elements to determine the universe of students:
1. Pull all unique students which is determined by using a unique ***Student Identifier*** where ***Student Identification System*** = State,
2. Where the student is associated with a postsecondary institution through the ***Office of Postsecondary Education Identifier***, and
3. ***Entry Date into Postsecondary*** is within the Academic Year being reported.

From the universe of students, narrow the list to first-year college students using the following CEDS elements:
1. ***First Time Postsecondary Student*** = Yes, and
2. ***Enrollment Entry Date*** is ≥ July 1 of the school year being reported, and
3. ***Enrollment Exit Date*** is ≤ June 30 of the school year being reported.
4. If your organization defines first year as crossing academic years (Summer, Fall, Spring, Summer), your enrollment entry and exit dates may be different than those suggested here. Adjust them to how your organization calculates first year.

Identify which students have completed college-level introductory Math:

1. Filter records where ***Course Number*** = an introductory mathcourse which is determined by the school (example, Introductory Math (101, 102), including but not limited to College Algebra, Mathematics for Liberal Arts, trigonometry, geometry, and calculus, where
   a. ***Course Credit Level Type*** = LowerDivision (Lower division credit - associated with first/second year)
   b. ***Number of Credits Earned*** > 0
   c. ***Course Level Type*** = College Level
   d. ***Credit Earned Date*** ≤ the end of the first year of postsecondary institution enrollment.

Identify which students have completed college-level introductory English:

1. Filter records where ***Course Identifier*** = an introductory English course which is determined by the school (example, Introductory English (101, 102), where
   a. ***Course Credit Level Type*** = LowerDivision (Lower division credit- associated with first/second year)
   b. ***Number of Credits Earned*** > 0
   c. ***Course Level Type*** = College Level
   d. ***Credit Earned Date*** ≤ the end of the first year of postsecondary institution enrollment.

Divide the number of students who completed both college level introductory math and English in their first year by all students in their first year. Multiply by 100.

Disaggregate by Home Language

Use the following CEDS element(s) to Disaggregate the final set of students by home language:
1. ***Language Type*** = Home Language, and
2. ***ISO 639-3 Language Code*** ≠ English, and/or
3. ***English Learner Status*** = Yes

Disaggregate by Race and Ethnicity

Use the following CEDS element(s) to disaggregate the final set of students by race:
1. Filter records where ***Hispanic or Latino Ethnicity*** = No
2. Count, by race, where any of the following are true:
   a. ***Race*** = American Indian or Alaska Native
   b. ***Race*** = Asian
   c. ***Race*** = Black or African American
   d. ***Race*** = Native Hawaiian or Other Pacific Islander
   e. ***Race*** = White
   f. ***Race*** = Demographic Race Two or More Races
   g. ***Race*** = Race and Ethnicity Unknown

Use the following CEDS element(s) to disaggregate the final set of students by Hispanic or Latino Ethnicity:
1. Filter records where ***Hispanic or Latino Ethnicity*** = Yes

Disaggregate by Disability Status

Use the following CEDS element(s) to disaggregate the final set of students by disability status:

Students with a Disability
1. **Disability Status** = Yes, No; and
   a. **Status Start Date** ≤ Enrollment Entry Date
   b. **Status End Date** is null or ≥ **Enrollment Exit Date**
2. **Section 504 Status** = Yes, No
   a. **Status Start Date** ≤ **Enrollment Entry Date**
   b. **Status End Date** is null or ≥ **Enrollment Exit Date**

Disaggregate by Urbanicity

Use the following CEDS element(s) to disaggregate the final set of students by urbanicity:
NOTE: Urbanicity is meant to identify the school's location, not the student's residence. However, If the student is remote, then this would be the student's location.

1. **Rural Residency Status** = Yes (indicating rural) or No (indicating urban)

Disaggregate by Parental Education Level

Use the following CEDS element(s) to disaggregate the final set of students by parental education level:

1. **Highest Level of Education Completed** = (select the option that best fits the parent/guardian's education level)

Disaggregate by English Learner

Use the following CEDS element(s) to disaggregate the final set of students by English learner status:
1. **English Learner Status** = Yes, No
2. **Program Participation Start Date** ≤ the school year being reported
3. **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by Attendance Intensity

Use the following CEDS element(s) to disaggregate the final set of students by attendance intensity:
1. **Postsecondary Enrollment Status** = Full time, Less than full-time but at least half-time

Disaggregate by Age Group

Use the following CEDS element(s) to disaggregate the final set of students by age group:
1. **Birthdate** = Age as of the enrollment date of the school year being reported

Disaggregate by Income Level

Use the following CEDS element(s) to disaggregate the final set of students by income level:
1. **Low-income status** = Yes or No

Disaggregate by Individuals or Family Military Status

Use the following CEDS element(s) to disaggregate the final set of students by individuals or family military status:
1. Military Connected Student Indicator = Not Military, Active Duty, National Guard or Reserve, or Unknown

Disaggregate by Individual with Current or Past Child Welfare Involvement

Use the following CEDS element(s) to disaggregate the final set of students by individual with current or past child welfare involvement:
1. **Program Type** = 75000 (Foster Care)
2. **Student Support Service Type** = 00295 (Children's protective services)
3. **Program Participation Start Date** ≤ the school year being reported
4. **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by Justice Involvement

Use the following CEDS element(s) to disaggregate the final set of students by justice involvement:
1. **Disciplinary Action Taken** = 03088 (Juvenile justice referral), 03089 (Law Enforcement Referral), 75000 (Placed in juvenile detention center)
2. **Disciplinary Action Start Date** ≤ the school year being reported
3. **Disciplinary Action End Date** ≥ the school year being reported

Disaggregate by Postsecondary Institution Classification

Use the following CEDS element(s) to disaggregate the final set of students by postsecondary institution classification:
1. **Control of Institution** = Public; Private, not for profit; or Private, for profit
2. **Level of Institution** = FourYear, Two to Four, or Less than Two

Disaggregate by Transfer Enrollment Status

Use the following CEDS element(s) to disaggregate the final set of students by transfer enrollment status:
1. **Postsecondary Enrollment Type** = Transfer In

Disaggregate by Postsecondary Major

Use the following CEDS element(s) to disaggregate the final set of students by postsecondary major:
1. **Postsecondary Program Level** = Major
2. **Classification of Instructional Program Code** = *the CIP code assigned to the program or course.*

Disaggregate by Homelessness

Use the following CEDS element(s) to disaggregate the final set of students by homelessness:
1. **Homelessness Status** = Yes, No
2. **Status Start Date** ≤ the school year being reported
3. **Status End Date** ≥ the school year being reported

Disaggregate by Sex

Note: CEDS does not have a Gender element. While Sex is not a proxy for Gender it is the closest approximation currently available.

Note: Male + Female will not always equal 100% for states that have more choices beyond male and female.

Use the following CEDS element(s) to disaggregate the final set of students by sex:
1. **Sex** = Male, Female, or Not Selected

Disaggregate by Credential-seeking Status

Use the following CEDS element(s) to disaggregate the final set of students by credential-seeking status:
1. **Degree or Certificate Seeking Student** = Yes, No

Disaggregate by First Generation College Student

Use the following CEDS element(s) to disaggregate the final set of students by dislocated worker status:
1. **First Generation College Student** = Yes, No, Unknown

▶ **Related Connections**

No related connections

▶ **Related References**

A. Title: Education-to-Workforce Indicator Framework; Source: Education-to-Workforce Indicator Framework (see https://educationtoworkforce.org/)

Author's Comments/Additional Information

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