CEDS Connect

Connection Title: Access to early college coursework: Percentage of students in an early college course who take the relevant end-of-course test needed to earn credit (for example, AP or IB test), overall and by subject

Selected Descriptors:
    Curriculum Organization->Advanced Courses
    Educational Process: School Perspectives->Advanced Placement
    Students, Teachers, School Personnel->Advanced Students
    Educational Process: Societal Perspectives->College Preparation
    Individual Development and Characteristics->College Readiness
    Curriculum Organization->Courses
    Curriculum Organization->Curriculum
    Education-to-Workforce (E-W) Indicator Framework ->EQ12: Access and completion of rigorous and accelerated college preparatory coursework

Author: Education-to-Workforce 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 students in an early college course who take the relevant end-of-course test needed to earn credit (for example, AP or IB test), overall and by subject. The recommended analysis criteria are also included. 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. Assessments -> Assessment -> Assessment Academic Subject	
B. Assessments -> Assessment -> Assessment Identification System	
C. Assessments -> Assessment -> Assessment Identifier	
D. Assessments -> Assessment -> Assessment Title	
E. Assessments -> Assessment Result -> Assessment Result Score Value	
F. Assessments -> Assessment Session -> Assessment Session Actual End Date Time	
G. Assessments -> Assessment Session -> Assessment Session Actual Start Date Time	
H. K12 -> Calendar -> Session -> School Year	
I. K12 -> Course Section -> Course Level Type	
J. K12 -> Course Section -> Course Section Identifier	
K. K12 -> Course Section -> Session Type	
L. K12 -> K12 Course -> Advanced Placement Course Code	
M. K12 -> K12 Course -> Course Begin Date	
N. K12 -> K12 Course -> Course End Date	
O. K12 -> K12 Course -> Course Identifier	
P. K12 -> K12 Course -> Course Level Characteristic	
Q. K12 -> K12 Course -> Course Subject Abbreviation	
R. K12 -> K12 School -> Identification -> School Identification System	
S. K12 -> K12 School -> Identification -> School Identifier	
T. K12 -> K12 Student -> Identity -> Student Identification System	
U. K12 -> K12 Student -> Identity -> Student Identifier	
V. K12 -> LEA -> Identification -> Local Education Agency Identification System	
W. K12 -> LEA -> Identification -> Local Education Agency Identifier	
X. K12 -> SEA -> Identification -> State Agency Identification System	
Y. K12 -> SEA -> Identification -> State Agency Identifier	

Disaggregates

CEDS Elements:	Elements Not Currently in CEDS:
A. Adult Education -> AE Student -> Status -> Low-income Status	
B. K12 -> K12 School -> Directory -> Administrative Funding Control	
C. K12 -> K12 School -> Directory -> Charter School Type	
D. K12 -> K12 School -> Directory -> School Type	
E. K12 -> K12 Student -> Demographic -> Birthdate	
F. K12 -> K12 Student -> Demographic -> Hispanic or Latino Ethnicity	
G. K12 -> K12 Student -> Demographic -> Military Connected Student Indicator	
H. K12 -> K12 Student -> Demographic -> Race	
I. K12 -> K12 Student -> Demographic -> Rural Residency Status	
J. K12 -> K12 Student -> Demographic -> Sex	
K. K12 -> K12 Student -> Disability -> Disability Status	
L. K12 -> K12 Student -> Disability -> IDEA Indicator	
M. K12 -> K12 Student -> Disability -> Primary Disability Type	
N. K12 -> K12 Student -> Disability -> Section 504 Status	
O. K12 -> K12 Student -> Disability -> Status End Date	
P. K12 -> K12 Student -> Disability -> Status Start Date	
Q. K12 -> K12 Student -> Discipline -> Disciplinary Action End Date	
R. K12 -> K12 Student -> Discipline -> Disciplinary Action Start	

Date
S. K12 -> K12 Student -> Discipline -> Disciplinary Action Taken
T. K12 -> K12 Student -> Economically Disadvantaged ->
Eligibility Status for School Food Service Programs
U. K12 -> K12 Student -> English Learner -> English Learner
Status
V. K12 -> K12 Student -> English Learner -> Program
Participation Exit Date
W. K12 -> K12 Student -> English Learner -> Program
Participation Start Date
X. K12 -> K12 Student -> Homeless -> Homeless Serviced
Indicator
Y. K12 -> K12 Student -> Homeless -> Homelessness Status
Z. K12 -> K12 Student -> Homeless -> Status End Date
AA. K12 -> K12 Student -> Homeless -> Status Start Date
AB. K12 -> K12 Student -> IDEA -> Program Participation Exit
Date
AC. K12 -> K12 Student -> IDEA -> Program Participation Start
Date
AD. K12 -> K12 Student -> Individualized Program -> Student
Support Service Type
AE. K12 -> K12 Student -> Migrant -> Migrant Status
AF. K12 -> K12 Student -> Migrant -> Program Participation Exit
Date
AG. K12 -> K12 Student -> Migrant -> Program Participation Start
Date
AH. K12 -> K12 Student -> Program -> Program Participation
Exit Date
AI. K12 -> K12 Student -> Program -> Program Participation
Start Date
AJ. K12 -> K12 Student -> Program -> Program Type
AK. K12 -> Organization -> Identification -> Organization 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 "E-W System Conditions" which pertain to key institutional or systemic environments, policies, and practices within E-W systems that support positive E-W outcomes.

Calculating a Response

Metric: Percentage of students in an early college course who take the relevant end-of-course test needed to earn credit (for example, AP or IB test), overall and by subject

Use the following CEDS elements to identify the school year:
- ***School Year*** = the most recent school year or the school year being reported, representing July 1 through June 30.

Use the following CEDS elements to determine the universe of students:
- Pull all unique students which is determined by using a unique ***Student Identifier*** where ***Student Identification System*** = State

Where the student:
- is associated with a State Education Agency through the ***State Agency Identifier*** where ***State Agency Identification System*** = SEA
- is associated with a Local Education Agency through the ***Local Education Agency Identifier*** where ***Local Education Agency Identification System*** = SEA, and
- is associated with a K12 school through the ***School Identifier*** where ***School Identification System*** = SEA

From the universe of students, identify students who enrolled in at least one college level course.
- Pull the unique ***Course Identifier*** and/or ***Advanced Placement Course Code*** where
- ***Course Level Characteristic*** = 00574 (International Baccalaureate course), 00575 (Advanced placement course), 73048 (dual enrollment), or equivalent college level course, where
- ***Course Level Type*** = College Level, and where
- ***Course Begin Date*** and ***Course End Date*** are within the school year being reported.

If an instance of an AP, IB or dual credit course is taught during a specific term, use ***Course Section Identifier*** where ***Session Type*** = Semester to identify the course.

Narrow the list of students who enrolled in a college level course to only those students that took the end-of-course test to earn the credit.
- Pull all unique assessments which is determined by using ***Assessment Identifier*** where ***Assessment Identification System*** = State, and
- ***Assessment Title*** = Advanced Placement test, International Baccalaureate, and Dual Enrollment
- ***Assessment Result Score Value*** is not null
- ***Assessment Session Actual Start Date Time*** ≥ July 1 of the most recent school year
- ***Assessment Session Actual End Date Time*** ≤ June 30 of the most recent school year

From the list of students who took the end-of-course test, break the students into groups based on the subject in which the students took the test.
- ***Assessment Academic Subject*** = Arts (13371), or
- ***Assessment Academic Subject*** = English (13372), or
- ***Assessment Academic Subject*** = History Government – US (73088), History Government – World (73089), Social Sciences (13374), or
- ***Assessment Academic Subject*** = Language Arts (00554), Reading (00560), Reading/Language Arts (13373), or
- ***Assessment Academic Subject*** = Mathematics (01166), or
- ***Assessment Academic Subject*** = Science (00562), Science – Life (73086), Science – Physical (73087), or
- ***Assessment Academic Subject*** = Writing (01287)

To calculate the percentage of students who overall enrolled in an early college course and took the relevant end-of-course test to earn the credit,
- Count the number of students who enrolled in an early college course and took the relevant end-of-course test to earn the credit.
- Count the total number of students.
- Divide the number of students who enrolled in an early college course and took the relevant end-of-course test to earn the credit by the total number of students and multiply by 100.

To calculate the percentage of students who enrolled in an early college course and took the relevant end-of-course to earn the credit by subject,
- Count the number of students who enrolled in an early college course and took the relevant end-of-course test to earn the credit for the given subject that you wish to measure.
- Count the total number of students.
- Divide the number of students who enrolled in an early college course and took the relevant end-of-course test to earn the credit for the given subject that you wish to measure by the total number of students and multiply by 100.

Disaggregate by Race

Use the following CEDS elements to disaggregate the final set of students by Race:
- Filter records where ***Hispanic or Latino Ethnicity*** = No

Count, by race, where any of the following are true:
- ***Race*** = American Indian or Alaska Native
- ***Race*** = Asian
- ***Race*** = Black or African American
- ***Race*** = Native Hawaiian or Other Pacific Islander
- ***Race*** = White
- ***Race*** = Demographic Race Two or More Races

- **Race** = Race and Ethnicity Unknown

Use the following CEDS elements to disaggregate the final set of students by Hispanic or Latino Ethnicity:
- Filter records where **Hispanic or Latino Ethnicity** = Yes

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 elements to disaggregate the final set of students by Sex:
- **Sex** = Male, Female, or Not Selected

Disaggregate by Disability Status

Use the following CEDS elements to disaggregate the final set of students by Disability Status:

Students with a Disability: A student has a disability if any of the following are true:
- **Disability Status** = Yes
- **Status Start Date** ≤ the school year being reported
- **Status End Date** ≥ the school year being reported

and/or

- **IDEA Indicator** = Yes
- **Program Participation Start Date** ≤ July 1 of the school year being reported
- **Program participation Exit Date** ≥ June 30 of the school year being reported
- **Section 504 Status** = Yes
- **Status Start Date** ≤ the school year being reported
- **Status End Date** ≥ the school year being reported

*Section 504 Status may not apply if your state doesn't collect it.

Students without a Disability: A student does not have a disability if all of the following are true:
- **Disability Status** = No, and
- **Primary Disability Type** is null, and
- **IDEA Indicator** = No, and
- **Section 504 Status** = No

Count the number of students with a disability and the number of students without a disability.

For further analysis, disaggregate the students with a disability:

Filter records where
- **IDEA Indicator** = Yes
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Count, by **Primary Disability Type**, where any of the following are true:??
- **Primary Disability Type** = Autism
- **Primary Disability Type** = Deaf blindness
- **Primary Disability Type** = Deafness
- **Primary Disability Type** = Developmental delay
- **Primary Disability Type** = Emotional disturbance
- **Primary Disability Type** = Hearing impairment
- **Primary Disability Type** = Intellectual disability
- **Primary Disability Type** = Multiple disabilities
- **Primary Disability Type** = Orthopedic impairment
- **Primary Disability Type** = Other health impairment
- **Primary Disability Type** = Specific learning disability
- **Primary Disability Type** = Traumatic brain injury
- **Primary Disability Type** = Visual Impairment

Disaggregate by Urbanicity
Use the following CEDS element to disaggregate the final set of students by Urbancity.
- **Rural Residency Status** = Yes (indicating Rural) or No (indicating Urban)

Disaggregate by Parental Education Level
Use the following CEDS element to disaggregate the final set of students by Parental Education Level:
- **Highest Level of Education Completed** = Determine what the highest level of education completed is for the parents/guardians of the student

Disaggregate by Migrant Family Household
Use the following CEDS elements to disaggregate the final set of students by Migrant Family Household:
- **Migrant Status** = Yes, No
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by English Learner
Use the following CEDS elements to disaggregate the final set of students by English Learner:
- **English Learner Status** = Yes, No
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by School Type
Use the following CEDS elements to disaggregate the final set of students by K12 School Type:
- **Charter School Type** = School Charter or College University or NA; and
- **School Type** = Regular, Special, Career and Technical, Alternative or Reportable
- **Administrative Funding Control** = Public School, Private School, or Other
- **Organization Type** = K12 School, Education Institution

Disaggregate by Age Group
Use the following CEDS element to disaggregate the final set of students by Age Group:
- **Birthdate =** Age as of October 1 of the school year being reported

Disaggregate by Individuals or Family Military Status
Use the following CEDS elements to disaggregate the final set of students by Individuals or Family Military Status:
- **Military Connected Student Indicator** = Not Military, Active Duty, National Guard or Reserve, or Unknown

Disaggregate by Justice Involvement

Use the following CEDS elements to disaggregate the final set of students by Justice Involvement:
- **Disciplinary Action Taken** = 03088 (Juvenile Justice Referral), 03089 (Law enforcement referral), or 75000 (Placed in juvenile detention center)
- **Disciplinary Action Start Date** ≤ the school year being reported
- **Disciplinary Action End Date** ≥ the school year being reported

Disaggregate by Individual with Current or Past Child Welfare Involvement

Use the following CEDS elements to disaggregate the final set of students by Individual with Current or Past Child Welfare Involvement:
- **Program Type** = 75000 (Foster Care)
- **Student Support Service Type** = 00295 (Children's protective services)
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by Home Language

Use the following CEDS elements to disaggregate the final set of students by Home Language:
- **Language Type** = Home Language; and
- **ISO 639-3 Language Code** ≠ Eng; and/or
- **English Learner Status** = Yes

Disaggregate by Homelessness

Use the following CEDS elements to disaggregate the final set of students by Homelessness:
- **Homelessness Status** = Yes
- **Homeless Serviced Indicator** = Yes
- **Status Start Date** ≤ the school year being reported
- **Status End Date** ≥ the school year being reported

▶ **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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