

College, Career, Workforce, and Military Readiness Technical Documentation



Traditional District and School Report Cards

2023-2024 School Year



**Department of
Education &
Workforce**

Revision History

The revision history section provides a means for readers to easily navigate to the places where updates have occurred from prior years. Significant changes and updates are indicated through underlined blue text for additions and red text with strikethroughs for deletions. Minor changes- such as typos, formatting and grammar corrections - are not marked.

Date	Effective	Description

[OHIO REVISED CODE](#) and [OHIO ADMINISTRATIVE CODE](#) require schools to report data to EMIS and to verify and approve all EMIS data. Data should be reviewed and verified prior to the close of the [DIFFERENT DATA COLLECTIONS](#). This verification should include all relevant reports, including those in the Secure Data Center (SDC).

The Secure Data Center (SDC) is an interactive tool that allows schools to review data before it is final, and the Report Cards are released. **The SDC is the main resource schools should use to review Report Card Data but not inclusive. Please verify all relevant reports from EMIS, including General Issues Reports and Received Files with SSID level reports in the Data Collector.**

Table 1: Breadcrumb Trail to Secure Data Center Reports for School to Review

Component	Measure	SDC Breadcrumb Trail
College, Career, Workforce, and Military Readiness		Report Portal > Secure Data Center > Local Report Card > District (or School) Report Card > College, Career, Workforce, and Military Readiness

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Introduction

The College, Career, Workforce, and Military Readiness component (CCWMR) is intended to measure how prepared a graduating class is for post-secondary education, entering the workforce, or joining the armed forces. The readiness of a graduating class is estimated by calculating the number of students who engage in one or more of these experiences.

This component will not be rated or included in the overall rating for schools and districts until the 2024-2025 school year at the earliest.

Data collections and business rules have not been finalized for this component. All currently available data for each measure will be reported and a preliminary component percentage displayed but this data should be considered for informational purposes only.

Data Availability

Due to significant updating of this component as well as the fact that the data are lagged, not all measures will have data available until the 2024-2025 school year. The following table details what measures will have data and if data will be shown on the report card web page or only available as a download file.

Measure	Status on 2024 Report Card	Business Rule Status
Received an ACT Remediation Free score OR Received an SAT Remediation Free score	Final	Final
Received an Honors Diploma	Final	Final
Any combination of 3 or more Advanced Placement OR International Baccalaureate tests with qualifying scores	Final	Final
Earned at least 12 credential points in a single career field OR Hold a State recognized license	Final	Final
Earned twelve or more College Credits	Final	Final
Enlisted in the Military	Final	Final
Has been accepted into an apprenticeship program, Post high school	Final	Final
Completed a Pre-Apprenticeship	Final	Final
Completed an Apprenticeship	Final	Final
Achieved proficiency on three or more technical assessments in a single path	Final	Final
Obtained an Ohio Means Jobs Readiness Seal And 250 hours of internship / Work based learning	Final	Final

Business Rules

DETERMINING STUDENTS INCLUDED IN THIS COMPONENT

This component evaluates students in the four-year graduation cohort. The definitions, business rules, and inclusion criteria for the Four Year Graduation Cohort can be found in the [Understanding Student Placement for Ohio's Differentiated Accountability Systems](#) technical document.

COLLEGE, CAREER, WORKFORCE, AND MILITARY READINESS ELEMENTS

REMIEDIATION FREE SCORES ACT/SAT

Students demonstrate readiness for this measure by earning a remediation-free score or higher on the ACT or SAT. Thresholds are set for each subject by the [Ohio Department of Higher Education](#).

The remediation-free scores are:

Table 2: ACT Remediation Free Scores

ACT Remediation Free Score	
English	18
Reading	22
Mathematics	22

Table 3: SAT Remediation Free Scores

SAT Remediation Free Score	
English	480
Reading	480
Mathematics	530

Students can take the assessments multiple times. Once a passing score is earned in a subject, the percentage of students who achieved the remediation free scores will be counted.

HONORS DIPLOMA

Students demonstrate readiness on this measure by earning one of the six honors diploma options and meeting all associated [diploma requirements](#).

Ohio students can choose to pursue one of six honors diplomas:

1. [Academic Honors Diploma](#)
2. [International Baccalaureate Honors Diploma](#)
3. [Career Tech Honors Diploma](#)
4. [STEM Honors Diploma](#)
5. [Arts Honors Diploma](#)
6. [Social Science and Civic Engagement Honors Diploma](#)

ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAUREATE (IB)

Advanced Placement (AP) or International Baccalaureate (IB) courses are administered at the end of the year. They measure knowledge of the Ohio Learning Standards. This measure reports which students (among the graduation cohort) received qualifying scores on **at least**

three AP or IB exams. It can be a combination of both AP and IB assessments. Course availability is determined by each district.

Table 4: AP/IB Qualifying Scores

Exam Type	Qualifying Scores
AP Exam	Score of 3 or higher
IB Exam	Score of 4 or higher

TWELVE OR MORE INDUSTRY CREDENTIAL POINTS IN A SINGLE CAREER FIELD OR A STATE RECOGNIZED LICENSE

The process of earning an [industry-recognized credential](#) allows students to experience education *through work, about work, and for work*. An industry-recognized credential is a qualification of a specific set of competencies related to an industry or occupation. These credentials can take many different forms, including certificates, certifications, and licenses.

In order to count towards this measure, students must earn credentials totaling 12 points from the approved list. This can be a single credential or a bundle of credentials totaling 12 points **within the same career field**. Refer to the annual [Approved Credential List](#) for codes and associated career fields. Credentials must be earned on or before January 1 of the year after anticipated graduation date.

Career Fields and Credential Lists

Agriculture/Environmental Systems
Business, Marketing, and Finance
Education and Training
Health
Human Services
Law and Public Safety
Transportation

Arts and Communications
Construction
Engineering
Hospitality and Tourism
Information Technology
Manufacturing

State recognized license

Students can also demonstrate readiness by obtaining a state agency or board license approved under section of the Ohio Revised Code that is issued by a state agency or board for practice in a vocation that requires an examination for issuance of that license. Section [3313.6114\(C\)\(1\)\(b\)](#) of the Ohio revised code outlines this inclusion. Both licenses and industry credentials are reported the same. However, state licenses are by default 12 points. [3313.6113](#) of the Ohio Revised Code. It is issued for practice in a vocation requiring an examination for a license. Industry credentials and licenses are reported the same but state issued licenses are 12 points Section [3313.6114\(C\)\(1\)\(b\)](#) (of the Ohio revised code) outlines this inclusion. .

TWELVE OR MORE COLLEGE CREDITS

Students demonstrate readiness by earning twelve or more college credits through:

- advanced standing programs, such as the [College Credit Plus](#) program, under Chapter [3365](#) of the Revised Code,
- an early college high school program under section [3313.6013](#) of the Revised Code, or
- A state-approved career-technical course offered through dual enrollment or statewide articulation,

Credits appear on a student's college transcript issued by the institution of higher education where the student was educated. Credits reported under division [3302.03\(D\)\(1\)\(j\)\(iii\)](#), include credits that count toward the curriculum requirements for a degree, with the exception of remedial or developmental credits. College credits issued after the student has left secondary education can be included as long as the work (CTE, AP, or IB course and test) was completed before the student graduated.

ENLISTMENT IN THE MILITARY

Students demonstrate readiness by providing evidence of enlistment into the US Armed Forces. If students can provide evidence of enlistment, they are included in this measure per Ohio Revised Code section [3313.6114\(D\)\(j\)\(ix\)](#).

Evidence of Enlistment

To show evidence of enlistment, a student will:

- Provide a signed copy of the Department of Defense Form Enlistment/Reenlistment (DD Form 4) contract.

All branches of service offer a Delayed Entry program, which allows current high school students to enlist and begin training after graduation. After taking and achieving the required score on the ASVAB and completing the oath of enlistment into the Delayed Training Program, each recruit signs and receives their Department Defense Form Enlistment/Reenlistment (DD Form 4) contract. Students must submit this documentation to demonstrate evidence of enlistment.

It is recommended the student take the oath of enlistment and complete the process no later than April 30 of their senior (graduating) year. This date can be modified based on local policies, requirements, or deadlines for participation in graduation related activities.

COMPLETION OF A PRE-APPRENTICESHIP

Students demonstrate readiness by completing a pre-apprenticeship program per industry recognized credential, CJ99. These programs teach basic technical and job-readiness skills to prepare participants for formal apprenticeship programs. High school students who complete an ApprenticeOhio-recognized pre-apprenticeship program are included in this measure. Pre-apprenticeship curricula for in-school youth are developed in collaboration with the Ohio Department of Education and Workforce. Curricula for out-of-school and adults are developed in collaboration with the Ohio Department of Education and Workforce and/or the University System of Ohio.

ACCEPTANCE INTO AN APPRENTICESHIP POST-HIGH SCHOOL

Students demonstrate readiness by being accepted into an apprenticeship program post high school per program code 305016. An [apprentice](#) is 16 years or older and learning a career from a skilled worker while earning income. Each program must be registered with ApprenticeOhio and include a minimum of 2,000 hours of on-the-job training and 144 hours of classroom instruction each year. Apprenticeships offer the chance to acquire skills that will lead to higher salaries and extensive employment opportunities. Students can select a variety of occupations including health care, technology, advanced manufacturing, and construction. Once completed, they receive a nationally recognized certificate.

COMPLETION OF AN APPRENTICESHIP

Students demonstrate readiness by completing an apprenticeship registered through ApprenticeOhio and reported by program code 305018. This measure includes students 16 years or older who completed their [apprenticeship program](#) by meeting the minimum annual 2,000 hours of on-the-job training and 144 hours of classroom instruction. Additionally, they have received a nationally recognized certificate of completion.

ACHIEVED PROFICIENCY ON THREE OR MORE TECHNICAL ASSESSMENTS IN A SINGLE CAREER PATHWAY

Students demonstrate readiness by taking at least three modules, aligned industry-recognized credentials, College Credit Plus courses, or a combination to receive a cumulative score of “proficient” or “advanced” in a single career pathway. The cumulative technical assessment is not an individual score for each test taken, but an overall score across all modules.

The Department publishes a set of technical assessments (WebXam and industry-recognized credentials) required for each CTE course called the [Program and Assessment Matrix](#). More information on [WebXam](#) is published by the assessment vendor, CETE.

Course-level assessment scores are collected in EMIS. Assessment records aligned to a career pathway are included in the calculation of a summative, or pathway score. Pathway score calculations include all CTE technical assessments (WebXam), CTE College Credit Plus course grade substitutions, and Industry-Recognized Credentials taken throughout a student’s career-technical education coursework. Course enrollment is not considered in the calculation of student summative scores.

In the case of Career-Technical Education College Credit Plus (CCP) courses, grades are reported and used in lieu of a technical assessment module. CCP course grades are reported in EMIS as not proficient, proficient, or advanced. The calculation of a cumulative technical assessment score is derived from the average WebXam score for the reported proficiency band. The average proficient or nonproficient score is used for Industry-Recognized credentials.

If more than one technical assessment record is reported (for the same course), the highest score is used to calculate the cumulative score. A pathway proficiency benchmark is the average of all aligned assessments. Students are considered proficient if their score meets or exceeds the calculated pathway proficiency benchmark.

The formula for pathway, or summative assessment calculations is as follows, “s” represents a course-level technical assessment score, and “n” is the number of reported assessment records.

$$\frac{S_1 + S_2 + S_3 + \dots + S_n}{N \text{ (min of 3 required)}} = \text{Pathway Test Score}$$

For example, the following student would have a proficient pathway score for Agribusiness and Production Systems based upon their course assessments:

Student Summative Score Calculation, A0 Pathway				
Assessment Year	Assessment Subject Code	Proficient Benchmark	Advanced Benchmark	Student Assessment Score
2022	AAL5	59	91	73
2022	AAM5	63	79	88
2023	AAN5	62	93	85
2024	ADH0	59	76	73
Summative Score		59 + 63 + 62 + 59 = 243	91 + 79 + 93 + 76 = 339	73 + 88 + 85 + 73 = 319
		243/4 = 60.8	339/4 = 84.8	319/4 = 79.8

Each pathway has a specific set of assessments that measure the content. An assessment is only included if it aligns to the career pathway.

OHIO MEANS JOBS READINESS SEAL AND HAS 250 HOURS INTERNSHIP/WORK-BASED LEARNING
 Students demonstrate readiness by earning the OhioMeansJobs-Readiness Seal. Students must demonstrate certain professional skills required for success in the workplace. Students work with at least three experienced and trusted mentors who validate the demonstration of these skills in school, work, or the community. Review the [Guide for Earning the OhioMeansJobs-Readiness Seal](#).

Federal law defines work-based learning as “sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that fosters in-depth, firsthand engagement with the tasks required in a given career field, that are aligned to curriculum and instruction”.

For students who are not enrolled in CTE coursework, work-based learning experiences must be approved by the district’s Business Advisory Council established under section [3313.82](#). For students who are enrolled in CTE coursework, work-based learning experiences must be aligned to the CTE pathway approved by the department in which the student is enrolled. Students should accumulate 250 hours of work-based learning experiences. Hours may be accumulated across multiple types of work-based learning experiences beginning with ninth graders. Review the [Guide for issuing credit for Work-Based Learning](#).

Experiences may include one or more of the following:

- Off Site Placement and Internship
- Apprenticeship & Pre-Apprenticeship
- Remote/Virtual Placement
- Entrepreneurship
- School-Based Enterprise
- Simulated Work Environment

REPORT ONLY MEASURES

These measures appear on the report card webpage but are not in the component calculations.

ACT PARTICIPATION

ACT participation measures the percentage of the four year graduation cohort students who took the ACT test.

SAT PARTICIPATION

SAT participation measures the percentage of the four year graduation cohort students who took the SAT test.

ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAUREATE (IB) PARTICIPATION

This measures the percentage of the four year graduation cohort who took the Advanced Placement or International Baccalaureate assessments.

COLLEGE, CAREER, WORKFORCE, AND MILITARY READINESS COMPONENT CALCULATION

This component includes measures to capture ways that students demonstrate readiness for their next step after high school – post-secondary education, workforce, or enlisting in the

military. This calculation includes all students in the 2023 four year graduation cohort since it is lagged a year like the graduation component. There are specific thresholds or requirements for students to demonstrate readiness. If a student meets the criteria in at least one measure, the student counts once in the numerator regardless of the number of measures the student has met. To receive a percent on the CCWMR measure, a school or district must have at least ten accountable students in the four-year graduation cohort. In cases where a school or district has fewer than ten unique students, the data will be masked, and no CCWMR percentage will be calculated.

- **Code Sections:** [Ohio Revised Code 3302.03\(D\)\(1\)\(j\)](#)
- **N-Size:** 10 accountable students
- **Elements:**
 - Remediation Free Scores ACT/SAT,
 - Honors Diploma,
 - AP score of >3 or IB score of >4,
 - >=12 Industry Credential Points in a single Career Field or State recognized license,
 - >=12 College Credits,
 - Military Readiness,
 - Completion of Pre-Apprenticeship,
 - Acceptance into an Apprenticeship post high school,
 - Achieved >=Proficiency on three or more technical assessments in a single career pathway,
 - Earned the OhioMeansJobs-Readiness Seal with 250 Work-Based Learning hours

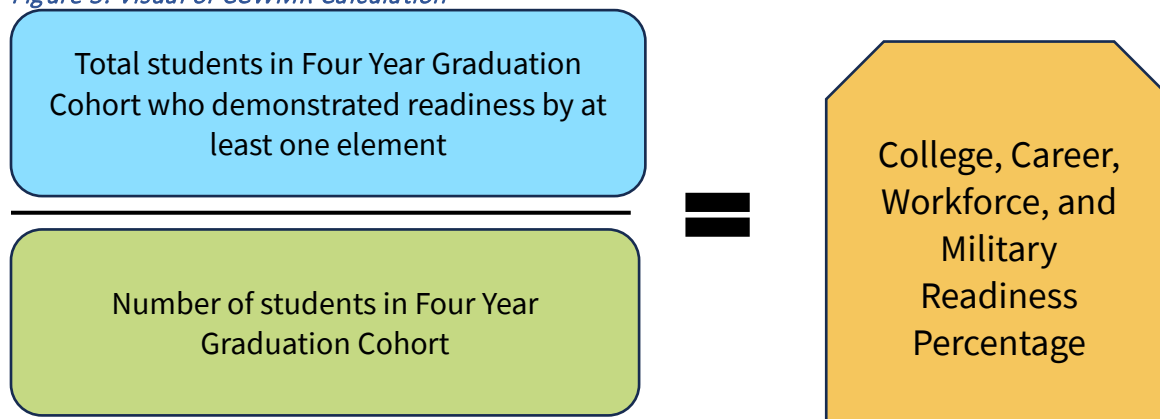
DENOMINATOR

The denominator includes all students in each four-year graduation cohort. For 2024, the students in the class of 2023 are included even if they did not graduate.

NUMERATOR

For a student to be included in the numerator, they must demonstrate readiness in one area. The student counts once even if readiness is demonstrated in multiple areas. There is no bonus points awarded.

Figure 3: Visual of CCWMR Calculation



Example Calculation

The following example shows the calculation of a cohort of four students and a list of the measures each has met or not met. This same process can be used to calculate the percentage for buildings or districts.

Measure	Met?	Student 1	Student 2	Student 3	Student 4
Received an ACT Remediation Free score OR Received an SAT Remediation Free score	Yes or No	Yes	No	No	No
Received an Honors Diploma	Yes or No	No	No	No	No
Any combination of three or more Advanced Placement OR International Baccalaureate tests with qualifying scores	Yes or No	Yes	No	No	Yes
Earned at least 12 credential points in a single career field OR Holds a State recognized license	Yes or No	No	Yes	No	No
Earned twelve or more College Career Plus Credits	Yes or No	No	No	No	No
Enlisted in the Military	Yes or No	No	No	No	No
Has been accepted into an apprenticeship program post high school	Yes or No	No	No	No	No
Completed a pre-apprenticeship	Yes or No	No	No	No	No
Completed an apprenticeship	Yes or No	No	Yes	No	No
Achieved proficiency on three or more technical assessments in a single path	Yes or No	No	No	No	No

Obtained an Ohio Means Jobs Readiness Seal And has 250 hours of internship / Work based learning	Yes or No	No	No	No	No
Count Student in the Numerator? (one or more measure met)	Yes	Yes	No	Yes	

There are four total students in this example cohort. Three students met at least one of the readiness measures and will be included in the numerator, The readiness percentage is calculated as

$$\frac{3}{4} = 75\%$$

Appendix A Inclusion Criteria

ADJUSTED GRADUATION COHORT

For the College, Career, Workforce, and Military Readiness Component, students will count in the numerator and denominator of the *last educating or sending district*, if the students are coded in the Education Management Information System (EMIS) with the following:
The students must be included in the 2023 Graduation Cohort **AND** meet the following requirements:

In order for students to be counted in the numerator and denominator for the College, Career, Workforce, and Military Readiness Component the students must be included in the 2023 Graduation Cohort **AND** meet the following requirements:

NUMERATOR

In order for students to be counted in the numerator they must have at least one of the following reported in EMIS:

Assessment type code (FA060) = **AC AND** Assessment Area Code (FA205) = **M, R, ENG** (all assessment type codes must be reported) **AND** Score (FA240) \geq **18** for English **AND** Score (FA240) \geq **22** for Mathematics **AND** Score (FA240) \geq **22** for Reading **AND** Test Date (FA210) \leq **20XX10** (CCYMM) **AND** Test Day of the Month (FA212) \leq **31** (indicating that the test was taken no later than October 31 of the cohort graduation year)

NOTE: A student must be reported with a valid score at or above the remediation-free benchmark in **all sections** of the ACT listed above to be included in the numerator. Note that the highest score from **all attempts** is used for the calculation. Therefore, a student who meets the required scores **across multiple attempts** is included.

OR

Assessment type code (FA060) = **SA AND** Assessment Area Code (FA205) = **M, R** (both assessment type codes must be reported) **AND** Score (FA240) \geq **530** for Mathematics **AND** Score (FA240) \geq **480** for Evidence-Based Reading and Writing **AND** Test Date (FA210) \leq **20XX10 AND** Test Day of the Month (FA212) \leq **31** (indicating that the test was taken no later than October 31 of the cohort graduation year)

NOTE: The highest score from **all attempts** is used for the calculation. Therefore, a student that meets the required scores **across multiple administrations** is included.

OR

Diploma Type Element (FN100) = **2, 4, 5, 6, 7, or 8**

OR

AT LEAST THREE Assessment type code (FA060) = **AP AND** Score (FA240) **>= 3 AND** Test Date (FA210) **<= 20XX10 OR** Assessment type code (FA060) = **IB AND** Score (FA240) **>= 4 AND** Test Date (FA210) **<= 20XX10**

NOTE: Test Date indicates that the test was taken no later than October 31 of the graduating year

OR

Single credential worth 12 points or a bundle of credentials totaling 12 points **within the same career field:** Assessment type code (FA060) = **GW AND** Test Date (FA210) **<= 20XX01** (indicating that the credential was earned no later than January 1 of the year following their anticipated graduation date) **AND** Score (FA240) **≠ N**

OR

Dual enrollment credit earned (GC110) **>=12**

OR

Program Code (GQ060) = **520110** – Military- Intent to Enlist

NOTE: Student has documented intent to enlist in the military by sharing a completed Contract DD Form 4 with the district.

OR

Assessment type code (FA060) = **GW AND** Assessment Area Code (FA205) = **CJ99**

OR

Program Code Apprenticeship Acceptance (GQ060) = **305016**

OR

Program Code Apprenticeship Completion (GQ060) = **305018**

OR

Achieved Proficiency on Three or more Technical Assessments in a Single Pathway
Assessment Type Code (FA060) = **GY, GW AND** Assessment Area Code (FA205) = See [CTE Program and Assessment Matrix](#) each year for the aligned technical assessment for each CTE course **OR**
Assessment Type Code (FA060) = **GY AND** Assessment Area Code (FA205) = See [CTE Program and Assessment Matrix](#) each year for the aligned technical assessment for each CTE course **AND**
Score Not Reported (FA235) = **X**

OR

Program Code Ohio Means Jobs (GQ060) = **510001 AND** Program Code Work Based Learning 250-499 hrs. (GQ060) = **310499**

OR

Program Code Ohio Means Jobs (GQ060) = 510001 AND Program Code Work Based Learning 500+ hrs. (GQ060) = 310500

NOTE: For students to be included in the numerator, the program codes, credentials, and assessment records must be reported prior to the anticipated Graduation Collection. For example, if a student began ninth grade in 2019 becoming a 2023 Cohort Student, but deferred their diploma to complete a CTE pathway, any credential earned in the 5th year would not “count” towards CCWMR.

ACT PARTICIPATION

In order for students to be counted in the numerator for ACT participation, the following conditions must be met:

Student is reported with an *Assessment type code (FA060) = AC AND Assessment Area Code (FA205) = M, R, ENG* (all assessment type codes must be reported) **AND Score (FA240) >= 1**, and **<= 36** (valid score ranges for the ACT) **AND Test Date (FA210) <= 20XX10 AND Test Day of the Month (FA212) <=31** (indicating that the test was taken no later than October 31 of the cohort graduation year)

NOTE: A student must be reported with a valid score in **all sections** of the ACT listed above to be counted as a participant and thus included in the numerator.

SAT PARTICIPATION

In order for students to be counted in the numerator for SAT participation, the following conditions must be met:

Student is reported with an *Assessment type code (FA060) = SA AND Assessment Area Code (FA205) = M, R* (both assessment type codes must be reported) **AND Score (FA240) >= 200**, and **<= 800** (valid score ranges for the SAT) **AND Test Date (FA210) <= 20XX10 AND Test Day of the Month (FA212) <=31** (indicating that the test was taken no later than October 31 of the cohort graduation year)

NOTE: A student must be reported with a valid score in **all sections** of either version of the SAT listed above to be included in the numerator

AP/IB PARTICIPATION

Assessment type code (FA060) = AP AND Score (FA240) >= 1, and **<= 5** (valid score ranges for the AP) **AND Test Date (FA210) <= 20XX10 AND Test Day of the Month (FA212) <=31** (indicating that the test was taken no later than October 31 of the cohort graduation year)

OR

Assessment type code (FA060) = **IB AND** Score (FA240) \geq **1**, and \leq **7** (valid score ranges for the IB) **AND** Test Date (FA210) \leq **20XX10 AND** Test Day of the Month (FA212) \leq **31** (indicating that the test was taken no later than October 31 of the cohort graduation year)