

Iowa Calculations Methods Manual for Voluntary Framework of Accountability Data Submissions

Reporting Year – 2019

To be used with Voluntary Framework of Accountability Metrics Manual Version 6

State of Iowa
Department of Education
Division Community Colleges & Workforce Development
Grimes State Office Building
Des Moines, IA 50319-0146

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**COMMUNITY COLLEGES &
WORKFORCE PREPARATION**

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Purpose of the Manual

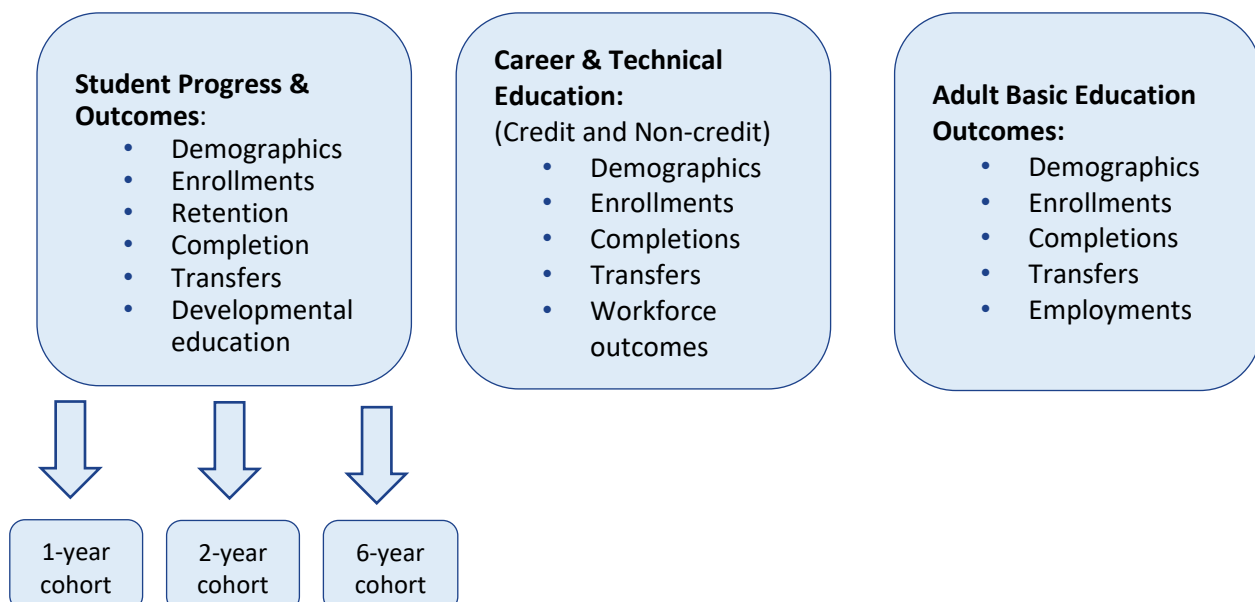
This manual serves to define Iowa's calculation methods for data submission of the Voluntary Framework for Accountability metrics and cohorts. In addition, data exchanges between the individual colleges and the Iowa Department of Education (IDOE) necessary to capture data not available in the statewide Management Information System (MIS) are defined here as well. The calculation methods presented in this manual have been defined and vetted by the VFA Reporting Workgroups involving institutional researchers, content specialists, and IDOE liaisons.

VFA Overview

The Voluntary Framework for Accountability (VFA) was designed by the American Association of Community Colleges (AACC) to serve as an accountability framework for community colleges with success measures tailored for this sector of higher education. Designed specifically with community colleges in mind, the VFA contains measures which encompass and reflect the full breadth of the community college mission and the diversity of students' goals and educational experiences. Partnering with the community college presidents, the Division of Community Colleges & Workforce Development (division) funds the VFA membership costs for the community colleges and supports the statewide initiative as a data clearinghouse to ensure consistency in data reporting.

The VFA system provides the opportunity for internal, inter-college, and state-wide comparisons and benchmarking, both in pre-set and customized groups of colleges or states. The VFA Measures are subdivided into three major categories: credit Student Progress & Outcomes (SPO), credit and noncredit Career & Technical Education (CTE), and Adult Basic Education Outcomes (ABE). SPO is based on two-year and six-year cohort tracking, while CTE and ABE track only one year cohort progress during the year and one year past the cohort's formation.

VFA Measurements



2019 VFA Reporting Schedule

| | |
|----------------|---|
| 3/6/19 | Final draft posted: Iowa Calculation Methods Manual for VFA Submissions - 2019 |
| 3/6 - 3/15/19 | Two-Year and On-year First Time in Ant College Data Exchange: |
| | February 25, DE will provide each college with the data sets to initiate the data exchange process |
| | March 6 - 15, Colleges will append required VFA fields for data sets |
| | March 15, Appended files due back to the DE |
| 3/15 - 5/30/19 | IDOE processes data |
| 5/30/19 | IDOE uploads One Year, Two Year & Six Year Cohorts, CTE Profile & Cohort, and ABE data to VFA site and provides colleges with aggregate data reports. |
| 6/1 - 6/30/19 | Targeted data validation by Subcommittee: Sub-committee representatives (and other interested volunteers) will review posted cohort data in detail to ensure accuracy and integrity. |
| 7/1 - 7/15/19 | Local validation: Colleges review Two Year & Six Year Cohorts, CTE Profile & Cohort, and ABE data summaries, provide feedback to the DE and correct concerns as needed |
| 8/1/19 | IDOE locks the data |
| 9/2/19 | Last day to publish data |

IDOE – VFA Technical Assistance Contacts

| VFA Section | Person | Email (@iowa.gov) | Phone (515) |
|--|-----------------|--------------------------|--------------------|
| Main Contact Person for Data Submission | Vladimir Bassis | Vladimir.bassis@ | 281-3671 |
| One Year, Two-Year & Six-Cohort Credit Reporting | Vladimir Bassis | Vladimir.bassis@ | 281-3671 |
| CTE Credit/Non-Credit Reporting | Vladimir Bassis | Vladimir.bassis@ | 281-3671 |
| ABE Reporting | Lisa Gard | Lisa.gard@ | 418-3156 |

VFA Reporting Workgroups

The VFA Reporting Workgroups were established prior to the implementation of VFA in Iowa to review the VFA Metrics Manual each year and define the calculation methods to be utilized by the IDOE for data submission. These workgroups are convened on a monthly and as needed basis to analyze Iowa's calculations methods and for discussion of upcoming modifications of the VFA Metrics Manual.

VFA Credit Workgroup

Erin Volk (WITCC - IR) - *Chair*
Lisa Breja (IVCCD - IR)
Connie Buhr (HCC - IR)
Nancy Dugan (EICC - IR)
Janet Emmerson (DMACC - IR)
Ananda Subramanian (DMACC - IR)
Cort Iverson (KCC - IR)
Katherine Knoblock (NCC - IR)
Stacy Mentzer (ICCC - IR)
Barbara Godden (IWCC – IR)
Vlad Bassis (IDOE)
Lisa Gard (IDOE)
Zoë Thornton (IDOE)
Barbara Burrows (IDOE - Bureau Chief)

VFA CTE Credit/NonCredit Workgroup

Brenda Ireland (KCC - CE) - *Chair*
Kim Oaks (SWCC - CE)
Jolene Rogers (ILCC - CE)
Pam Southworth (IWCC - CE)
MaryAnne Nickle (IVCCD - Credit CTE)
Neale Adams (ICCC - Credit CTE)
Cort Iverson (KCC - IR)
Vlad Bassis (IDOE)
Lisa Gard (IDOE)
Chris Russell (IDOE)
Zoë Thornton (IDOE)
Pradeep Kotamraju (IDOE - Bureau Chief)

VFA Adult Education Workgroup

Marcel Kielkucki (KCC - AEL)
Jessica Edmundson (DMACC - AEL)
Jenny Knudson (ILCC - AEL)
Janet Emmerson (DMACC - IR)
Alex Harris (IDOE - AEL)
Vlad Bassis (IDOE)
Lisa Gard (IDOE)
Zoë Thornton (IDOE)

DMACC – Des Moines Area Community College
EICC – Eastern Iowa Community Colleges
HCC – Hawkeye Community College
ICCC – Iowa Central Community College
ILCC – Iowa Lakes Community College
IVCCD – Iowa Valley Community College District
IWCC – Iowa Western Community College
KCC – Kirkwood Community College
NCC – Northwest Iowa Community College
SWCC – Southwestern Community College
WITCC – Western Iowa Tech Community College
IDOE – Iowa Department of Education

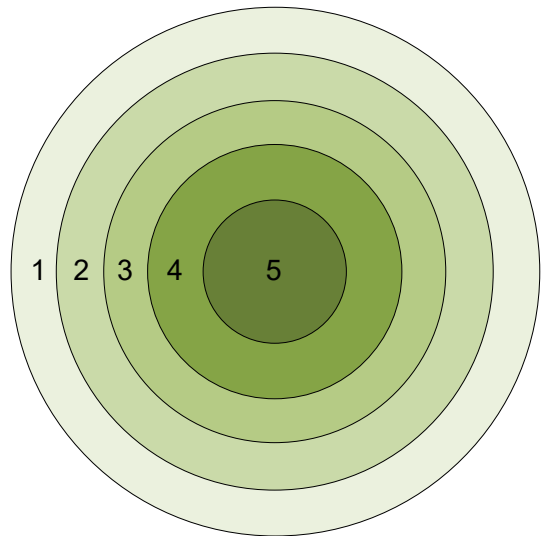
ONE-YEAR COHORT

PART I: Cohort Formation

A. ESTABLISHING MAIN VFA ONE YEAR COHORT FOR AY 2017-18 BASED ON MIS DATA¹ FOR VFA DATA SUBMISSION IN AUGUST 2019

The formation of the VFA main cohort is presented as a progressive implementation of required filters, from Starting Data Set (cohort #1) to resulting Main VFA cohort (cohort #5).

1. STARTING DATA SET: Fall Term Enrollment, AY2016-17 (calendar Fall 2017), Student Course File, unduplicated.
2. REMOVING STUDENTS IN RECIPROCAL AGREEMENT PROGRAMS²: Starting data set MINUS students in Reciprocal Agreement programs (code 35 under Special Emphasis).
3. NOT HS ENROLLMENT/HS COMPLETION CREDENTIAL COHORT: #2, MINUS those students who have been enrolled as JE (Course data, HS Enrollment code exclusively = 1, 2, 3 during term 1) and not received any type of HS completion credential (High School Award Type ≠ 1, 2 or 5).
4. NON-EXCLUSIVELY-ESL STUDENT COHORT: #3 linked to Fall Enrollment, Fall of AY'17-18 (calendar Fall 2017), Credit Student Course File, MINUS those students who were enrolled exclusively in ESL or ESI courses (keep only students with first three characters in Course Number ≠ "ESL or ESI").
5. MAIN COHORT: #4 MINUS students found in Credit Student Course Files for previous years with available Joint Enrollment data³ (FY2007-AY2016-2015 [except Summer 2016]) as NOT enrolled as "still in HS" students (High School Enrollment Type = 0), and MINUS students found with First Enrollment (in this college) data <07/01/2006 (for all students found in enrollment prior to FY 2007).



¹Justification quotations from the VFA Manual 7.0 provided with the numbers for each described cohort.

²The VFA sub-committee recommends excluding students in Reciprocal Agreement programs from the main VFA cohort, since those students are not expected to graduate from the college of origin.

³There was no detailed Joint Enrollment data collection prior to FY2007.

...AS PRESCRIBED BY VFA MANUAL...

1. "...students enrolled at any point in the fall term..." (p.9)
3. "Completed high school or equivalent, or demonstrated ability to benefit..." (p.9)
4. "Students who were enrolled exclusively in ESL courses should not be included in the Main cohort" (p.10)

B. ESTABLISHING FIRST TIME IN COLLEGE VFA TWO YEAR COHORT FOR AY 2017-18 BASED ON MIS DATA FOR VFA DATA SUBMISSION IN AUGUST 2019

Use college-reported field “First-time in Any College”.

PART II: FORMAT/SCOPE OF THE DATA THAT THE COLLEGES RECEIVE FROM THE DE AND
 FORMAT/SCOPE OF THE DATA THAT COLLEGES RETURN TO THE DE: ONE YEAR COHORT

Data for VFA is accepted together with the method to determine developmental need cohort is declared. In order to report selected method, DE will need, from each college:

- Its Referral Method for Developmental Education (only **one per college per year**: “1” = by Referral Test, “2” = by Course Selection, “3” = Combination of 1 and 2).

Further, DE will also need additional information, not initially collected in AY2017-18: First Time in Any College flag reported for each student in. To obtain it, the DE will provide colleges with relevant data fields to include all students reported to DE in during AY2017-18. Colleges will return the file with needed appended data field, as described in the layout below.

Credit Student Information File (AY 2017-18)

=DE Provides; = College Provides; Data definitions are provided in the Data Glossary below.

| # | Data Element | Format | Len. | Field Description |
|---|--|--------|------|---|
| 1 | College Number | Text | 2 | Two character District Number (01 through 16) |
| 2 | Unique Student Identifier/Locally Assigned | Text | 9 | Indicate the numeric value of the locally assigned student identifier, with leading zeroes if the identifier is less than 9 digits. |
| 3 | First Time in <u>Any</u> College | Text | 1 | 0 = No; 1 = Yes; based on IPEDS definition for First Time in College Cohort for Fall 2017 term. |

PART III: CALCULATION METHODS, ONE-YEAR COHORT

I. Disaggregation, Main cohort (procedure is replicated for First Time in College cohort).

1. Race/Ethnicity: Hispanic, American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White, Non-Resident Alien. (VFA Metrics Manual Version 7.0 [February 2019], page 18).
 - a. Identify Non-Resident Alien based on cohort’s AY2017-18 credit course file, data element Residency, code 3 “Foreign/International student”, flag and exclude from further calculations.

- b. Identify Hispanic from AY2017-18 Student information file, data element Ethnicity, code 1, flag and exclude from further calculations.
 - c. Identify Race Not Reported from AY2017-18 Student Information file, data element Race, codes for American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White =0; Hispanic =2 or = 0; Fall enrollment credit course file, data element Residency code =0, or 1, or 2.
 - d. Identify American Indian from AY2017-18 Student Information file, data element Race, code 1, if coded as such ONLY (Asian, Black, Native Hawaiian/Pacific Islander, White codes = 0).
 - e. Identify Asian from AY2017-18 Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Black, Native Hawaiian/Pacific Islander, White codes = 0).
 - f. Identify Black from AY2017-18 Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Native Hawaiian/Pacific Islander, White codes = 0).
 - g. Identify Native Hawaiian/Pacific Islander from AY2017-18 Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Black, White codes = 0).
 - h. Identify White from AY2017-18 Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Black, Native Hawaiian/Pacific Islander codes = 0).
 - i. Identify Two Or More Races from AY2017-18 Student Information file, data element Race, code 1, if coded as such for more than one race (American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White codes = 1 in any combination of two or more).
2. Age: identify based on cohort's AY2017-18 credit Student Information file, data element Birth Date, age in years as of September 1 of the cohort's year, and aggregate into categories <20, 20-24, 25-29, 30-39, 40-49, =>50, Age Unknown (=Birth Date is blank). (VFA Metrics Manual Version 7.0 [February 2019], page 18).
 3. Gender: identify gender based on cohort's AY2017-18 credit Student Information file, data element Gender, codes 1 (Male), 2 (Female) and 0 (Unknown).
 4. Pell Status: identify Pell Status based on Student Information files for two academic years starting with cohort formation year, data element Pell Status, codes 1 or 0.
 5. FT/PT: identify Full Time/Part Time based on cohort's Fall term of AY2017-18 credit course file, data element Course Credit Hours, where FT =>12 credits (=>8 for IHCC) and PT <12 credits (<8 credits for IHCC). (VFA Metrics Manual Version 7.0 [February 2019], page 19).
 6. College ready (VFA Metrics Manual Version 7.0 [February 2019], page 19).
For VFA purposes, identify "required to take developmental education" for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).
 - 6a. If a college declared Developmental Referral Method as "Referral":

Unduplicated count of students in a cohort who were reported with codes 1, 2 or 3 within two academic years starting with cohort formation year, data element Developmental Referral: Math and/or English and/or Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during the academic year of the cohort formation.

6b. If a college declared Developmental Referral Method as “Course Taking Pattern”: unduplicated count of students who were reported within credit course file for the academic year of the cohort formation year, under data element Course Level with codes 1, or/and 2, or/and 3 and under data elements Developmental Discipline with code M and/or E and/or R.

6c: If a college declared Developmental Referral Method as “Combination”: Unduplicated count of students in a cohort who were reported with codes 1, 2 or 3 within the academic year starting year if the cohort formation, data element Developmental Referral: Math and/or English and/or Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10, 13) for at least one course during the academic year of the cohort formation, OR who were reported within credit course files within academic years of the cohort formation, under data elements Developmental Discipline with code M, and/or E and/or R, and Course Level with codes 1, or/and 2, or/and 3.

II. **One-year Progress Measures, one-, two-, and six-year cohorts.**

1. Percent Student Earned 6+ college credits first term (VFA Metrics Manual Version 7.0 [February 2019], page 30).

For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.

(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who successfully earned 6 or more college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) during Term 1 of cohort year.

2. Percent Student Earned 12+ college credits first term (VFA Metrics Manual Version 7.0 [February 2019], page 31).

For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.

(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who successfully earned 12 or more college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) during Term 1 of cohort year.

3. Percent Student Earned 15+ college credits first year (VFA Metrics Manual Version 7.0 [February 2019], page 32).

For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.

(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who successfully earned 15 or more college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) during cohort formation year (not counting preceding Summer credits).

4. Percent Student Earned 24+ college credits first year (VFA Metrics Manual Version 7.0 [February 2019], page 33).

For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.

(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who successfully earned 24 or more college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) during cohort formation year (not counting preceding Summer credits).

5. Percent Student Earned 30+ college credits first year (VFA Metrics Manual Version 7.0 [February 2019], page 34).

For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.

(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who successfully earned 30 or more college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) during cohort formation year (not counting preceding Summer credits).

6. Percent Students Completed College-Level Math in Year One (VFA Metrics Manual Version 7.0 [February 2019], page 34).
For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).
- DENOMINATOR:
 Unduplicated count of students in a cohort.
- NUMERATOR:
 Number of students in a cohort who successfully earned any number of college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) in Math (course discipline = “M”) during cohort formation year (not counting preceding Summer credits).
7. Percent Students Completed College-Level English in Year One (VFA Metrics Manual Version 7.0 [February 2019], page 35).
For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).
- DENOMINATOR:
 Unduplicated count of students in a cohort.
- NUMERATOR:
 Number of students in a cohort who successfully earned any number of college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) in English (course discipline = “E”) during cohort formation year (not counting preceding Summer credits).
8. Percent Students Completed College-Level Math and English in Year One (VFA Metrics Manual Version 7.0 [February 2019], page 35).
For VFA purposes, identify “required to take developmental education” for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).
- DENOMINATOR:
 Unduplicated count of students in a cohort.
- NUMERATOR:
 Number of students in a cohort who successfully earned any number of college level (course level = 0, successful completion = 1) credit hours (or their quarter hours equivalent, calculated as “credit hours/(2/3)” for IHCC) in English and Math (course discipline = “E” and “M”) during cohort formation year (not counting preceding Summer credits).
9. Percent Students Retained from Fall to the Next Term (VFA Metrics Manual Version 7.0 [February 2019], page 36).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Number of students in a cohort who were found in term 3 (term 2 for IHCC) of the cohort formation year, or who earned a formal award in fall term (award date between term 1 start and term 1 end dates based on school academic calendar for cohort formation year).

10. Percent Credits Successfully Completed in One Year (VFA Metrics Manual Version 7.0 [February 2019], page 36).

DENOMINATOR:

Number of attempted college level (course level = 0) credit hours (or their quarter hours equivalent, calculated as "credit hours/(2/3)" for IHCC) during cohort formation year (not counting preceding Summer credits) by all students in a cohort.

NUMERATOR:

Number of successfully completed college level (course level = 0, successful completion = "1") credit hours (or their quarter hours equivalent, calculated as "credit hours/(2/3)" for IHCC) during cohort formation year (not counting preceding Summer credits) by all students in a cohort.

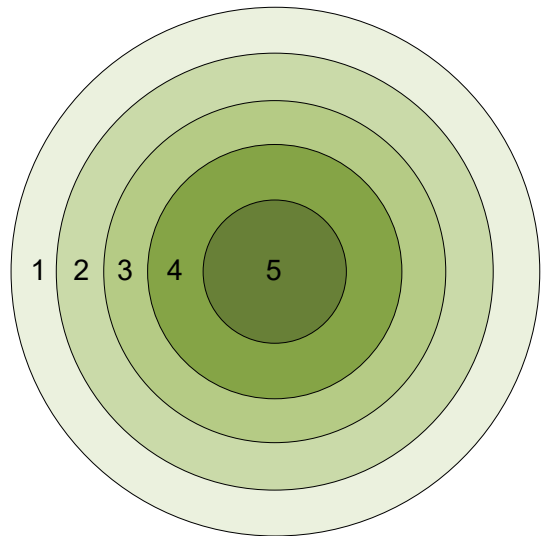
TWO-YEAR COHORT

PART I: Cohort Formation

A. ESTABLISHING MAIN VFA TWO YEAR COHORT FOR AY 2016-17 BASED ON MIS DATA¹ FOR VFA DATA SUBMISSION IN AUGUST 2019

The formation of the VFA main cohort is presented as a progressive implementation of required filters, from Starting Data Set (cohort #1) to resulting Main VFA cohort (cohort #5).

6. STARTING DATA SET: Fall Term Enrollment, AY2016-17 (calendar Fall 2016), Student Course File, unduplicated.
7. REMOVING STUDENTS IN RECIPROCAL AGREEMENT PROGRAMS²: Starting data set MINUS students in Reciprocal Agreement programs (code 35 under Special Emphasis).
8. NOT HS ENROLLMENT/HS COMPLETION CREDENTIAL COHORT: #2, MINUS those students who have been enrolled as JE (Course data, HS Enrollment code exclusively = 1, 2, 3 during term 1) and not received any type of HS completion credential (High School Award Type ≠ 1, 2 or 5).
9. NON-EXCLUSIVELY-ESL STUDENT COHORT: #3 linked to Fall Enrollment, Fall of AY'16-17 (calendar Fall 2016), Credit Student Course File, MINUS those students who were enrolled exclusively in ESL or ESI courses (keep only students with first three characters in Course Number ≠ "ESL or ESI").
10. MAIN COHORT: #4 MINUS students found in Credit Student Course Files for previous years with available Joint Enrollment data³ (FY2007-FY2016 [except Summer 2016]) as NOT enrolled as "still in HS" students (High School Enrollment Type = 0), and MINUS students found with First Enrollment (in this college) data <07/01/2006 (for all students found in enrollment prior to FY 2007).



¹Justification quotations from the VFA Manual 6.0 provided with the numbers for each described cohort.

²The VFA sub-committee recommends excluding students in Reciprocal Agreement programs from the main VFA cohort, since those students are not expected to graduate from the college of origin.

³There was no detailed Joint Enrollment data collection prior to FY2007.

...AS PRESCRIBED BY VFA MANUAL...

1. "...students enrolled at any point in the fall term..." (p.9)
3. "Completed high school or equivalent, or demonstrated ability to benefit..." (p.9)
4. "Students who were enrolled exclusively in ESL courses should not be included in the Main cohort" (p.10)
5. "The cohort should also include students who earned college credits during high school (such as dual enrollment) as long as this is their first enrollment for credit at your college after receipt of the high school diploma or equivalent."(p.10)

B. ESTABLISHING CREDENTIAL SEEKING COHORT VFA TWO YEAR COHORT FOR AY 2016-17 BASED ON MIS DATA FOR VFA DATA SUBMISSION IN AUGUST 2019

1. Match students in the MAIN cohort to Credit Course files data to include: a. Summer Term (Term 4) for AY2015-2016; b. AY2016-17 data; c. AY2017-18 data.
2. Sum up total number of earned credits per student using data element Earned Credit Hours.
3. Filter by =>12 credits, unduplicate.
4. Filter 2. by <12 credit hours, unduplicate.
5. Match 4. to Credit Awards files data to include: a. AY2016-17; b. AY2017-18 data; unduplicate matched students.
6. Union 3. And 5. for CREDENTIAL SEEKING cohort.

*Sub Committee decision to use all awards, not just <12 credits.

C. ESTABLISHING FIRST TIME IN COLLEGE VFA TWO YEAR COHORT FOR AY 2015-16 BASED ON MIS DATA FOR VFA DATA SUBMISSION IN AUGUST 2018

Use college-reported field "First-time in Any College".

PART III: CALCULATION METHODS, TWO-YEAR COHORT

III. Disaggregation, Main cohort (procedure is replicated for Credential Seeking and First Time in College cohorts).

1. Race/Ethnicity: Hispanic, American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White, Non-Resident Alien. (VFA Metrics Manual Version 7.0 [February 2019], page 18).
 - a. Identify Non-Resident Alien based on cohort's formation credit year course file, data element Residency, code 3 "Foreign/International student", flag and exclude from further calculations.
 - b. Identify Hispanic from cohort's formation year Student information file, data element Ethnicity, code 1, flag and exclude from further calculations.
 - c. Identify Race Not Reported from cohort's formation year Student Information file, data element Race, codes for American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White =0; Hispanic =2 or = 0; Fall enrollment credit course file, data element Residency code =0, or 1, or 2.
 - d. Identify American Indian from cohort's formation year Student Information file, data element Race, code 1, if coded as such ONLY (Asian, Black, Native Hawaiian/Pacific Islander, White codes = 0).
 - e. Identify Asian from cohort's formation year Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Black, Native Hawaiian/Pacific Islander, White codes = 0).
 - f. Identify Black from cohort's formation year Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Native Hawaiian/Pacific Islander, White codes = 0).
 - g. Identify Native Hawaiian/Pacific Islander from cohort's formation year Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Black, White codes = 0).
 - h. Identify White from cohort's formation year Student Information file, data element Race, code 1, if coded as such ONLY (American Indian, Asian, Black, Native Hawaiian/Pacific Islander codes = 0).
 - i. Identify Two Or More Races from cohort's formation year Student Information file, data element Race, code 1, if coded as such for more than one race (American Indian, Asian, Black, Native Hawaiian/Pacific Islander, White codes = 1 in any combination of two or more).
2. Age: identify based on cohort's formation year credit Student Information file, data element Birth Date, age in years as of September 1 of the cohort's formation year, and aggregate into categories <20, 20-24, 25-29, 30-39, 40-49, =>50, Age Unknown (=Birth Date is blank). (VFA Metrics Manual Version 7.0 [February 2019], page 18).
3. Gender: identify gender based on cohort's formation year credit Student Information file, data element Gender, codes 1 (Male), 2 (Female) and 0 (Unknown).
4. Pell Status: identify Pell Status based on Student Information files for two academic years starting with cohort formation year, data element Pell Status, codes 1 or 0.

5. FT/PT: identify Full Time/Part Time based on cohort's Fall term of cohort's formation year credit course file, data element Course Credit Hours, where FT =>12 credits (=>8 for IHCC) and PT <12 credits (<8 credits for IHCC). (VFA Metrics Manual Version 7.0 [February 2019], page 19).
6. College ready (VFA Metrics Manual Version 7.0 [February 2019], page 18).
For VFA purposes, identify "required to take developmental education" for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).
 - 6a. If a college declared Developmental Referral Method as "Referral":
 Unduplicated count of students in a cohort who were reported with codes 1, 2 or 3 within two academic years starting with cohort formation year, data element Developmental Referral: Math and/or English and/or Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10, 13) for at least one course during two academic years starting with the cohort formation year.
 - 6b. If a college declared Developmental Referral Method as "Course Taking Pattern":
 unduplicated count of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Course Level with codes 1, or/and 2, or/and 3 and under data elements Developmental Discipline with code M and/or E and/or R.
 - 6c. If a college declared Developmental Referral Method as "Combination": Unduplicated count of students in a cohort who were reported with codes 1, 2 or 3 within two academic years starting with cohort formation year, data element Developmental Referral: Math and/or English and/or Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10, 13) for at least one course during two academic years starting with cohort formation, OR who were reported within credit course files for the two academic years, starting with the cohort formation year, under data elements Developmental Discipline with code M, and/or E and/or R, and Course Level with codes 1, or/and 2, or/and 3.

IV. Developmental Education Progress Measures by Subject, disaggregated by all Demographics and calculated for Main, Credential Seeking, and First Time in College cohorts.¹

1. Percent Students Needing Developmental Education in Subject. (VFA Metrics Manual Version 7.0 [February 2019], page 24).
For VFA purposes, identify "required to take developmental education" for Referral method as such if a student takes course(s) under Liberal Arts or No POS programs of study reporting codes during reporting years.
(2 and 6 year cohorts VFA sub-committee meeting decision, January 19, 2017).

¹ For instances of multiple levels of developmental education for a student, the following hierarchy will be used for nonduplication: Regardless of referral method, the level of most need will be reported to VFA (as opposed to most recent or first level). For example, if a student is reported with Level 1 during Year 1 and Level 2 during Year 2, Level 2 will be reported.

- a. DENOMINATOR:
Unduplicated count of students in a cohort.

NUMERATOR:

a1. If a college declared Developmental Referral Method as “Referral”:

Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, in data element Developmental Referral: Math and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year.

a2: If a college declared Developmental Referral Method as “Course Taking Pattern”:
unduplicated number of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Developmental Discipline with code M, and Course Level with codes 1, or/and 2, or/and 3.

a3: If a college declared Developmental Referral Method as “Combination”:
Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: Math and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year, OR who were reported within credit course files for the two academic years, starting with the cohort formation year, under data elements Developmental Discipline with code M, and Course Level with codes 1, or/and 2, or/and 3.

- b. DENOMINATOR:
Unduplicated count of students in a cohort.

NUMERATOR:

b1. If a college declared Developmental Referral Method as “Referral”:

Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, in data element Developmental Referral: English and were reported under liberal arts/no POS Type of Program codes (08, 09, 10, 13) for at least one course during two academic years starting with cohort formation year.

b2: If a college declared Developmental Referral Method as “Course Taking Pattern”:
unduplicated number of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Developmental Discipline with code E, and Course Level with codes 1, or/and 2, or/and 3.

b3: If a college declared Developmental Referral Method as “Combination”:
Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: English and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year, OR who were reported within credit course files for the two

academic years, starting with the cohort formation year, under data elements Developmental Discipline with code E, and Course Level with codes 1, or/and 2, or/and 3.

c. DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

c1. If a college declared Developmental Referral Method as "Referral":

Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, in data element Developmental Referral: Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year.

c2: If a college declared Developmental Referral Method as "Course Taking Pattern":

unduplicated number of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code R, and Course Level with codes 1, or/and 2, or/and 3.

c3: If a college declared Developmental Referral Method as "Combination": Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year, OR who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code R, and Course Level with codes 1, or/and 2, or/and 3.

2. Distribution of Developmental Need. (VFA Metrics Manual Version 7.0 [February 2019], page 24).²

a. DENOMINATOR:

Math: Subsection IV, item 1. a1, or a2 or a3 (depending on referral method).

NUMERATOR:

Math: Students in Subsection IV, item 1. a1, or a2 or a3 (depending on referral method) who were reported with code 1.*

b. DENOMINATOR:

Math: Subsection IV, item 1. a1, or a2 or a3 (depending on referral method).

NUMERATOR:

Math: Students in Subsection IV, item 1. a1, or a2 or a3 (depending on referral method) who were reported with code 2.*

² Apply "referred developmental level" and "any developmental attempted" logic to special disaggregation by level as defined in 2019 VFA Metrics Manual page 23.

- c. DENOMINATOR:
Math: Subsection IV, item 1. a1, or a2 or a3 (depending on referral method).
- NUMERATOR:
Math: Students in Subsection IV, item 1. a1, or a2 or a3 (depending on referral method) who were reported with code 3.*
- d. DENOMINATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method).
- NUMERATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method) who were reported with code 1.*
- e. DENOMINATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method).
- NUMERATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method) who were reported with code 2.*
- f. DENOMINATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method).
- NUMERATOR:
English: Subsection IV, item 1. b1, or b2 or b3 (depending on referral method) who were reported with code 3.*
- g. DENOMINATOR:
Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method).
- NUMERATOR:
Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method) who were reported with code 1.*
- h. DENOMINATOR:
Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method).
- NUMERATOR:
Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method) who were reported with code 2.*
- i. DENOMINATOR:
Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method).

NUMERATOR:

Reading: Subsection IV, item 1. c1, or c2 or c3 (depending on referral method) who were reported with code 3.*

**If a student was reported with more than one level, unduplicate to count student only under the number of levels/highest need in developmental education.*

3. Percent Students Referred to Developmental Education in Subject. (VFA Metrics Manual Version 7.0 [February 2019], page 25).

a. DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

a1. If a college declared Developmental Referral Method as "Referral" or "Combination": Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: Math and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course within two academic years starting with cohort formation year.

a2: If a college declared Developmental Referral Method as "Course Taking Pattern": "0".

b. DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

b1. If a college declared Developmental Referral Method as "Referral" or "Combination": Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: English and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year.

b2: If a college declared Developmental Referral Method as "Course Taking Pattern": "0".

c. DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

c1. If a college declared Developmental Referral Method as "Referral" or "Combination": Unduplicated number of students in a cohort who were reported with codes 1, 2 or 3 in Student Information file within two academic years starting with cohort formation year, data element Developmental Referral: Reading and were reported under liberal arts/no POS Type of Program codes (08, 09, 10) for at least one course during two academic years starting with cohort formation year.

- c2: If a college declared Developmental Referral Method as "Course Taking Pattern": "0".
4. Percent Students Attempted Developmental Education Course. (VFA Metrics Manual Version 7.0 [February 2019], page 25).

a. DENOMINATOR:

a1. "Referral" or "Combination": Subsection IV, item 2. a1.

a2: If a college declared Developmental Referral Method as "Course Taking Pattern": N/A

NUMERATOR:

a1. Of students in DENOMINATOR, unduplicated count of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code M, and Course Level with codes 1, or/and 2, or/and 3.

a2. If a college declared Developmental Referral Method as "Course Taking Pattern": N/A.

b. DENOMINATOR:

b1. "Referral" or "Combination": Subsection IV, item 2. b1.

b2: If a college declared Developmental Referral Method as "Course Taking Pattern": N/A

NUMERATOR:

b1. Of students in DENOMINATOR, unduplicated count of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code E, and Course Level with codes 1, or/and 2, or/and 3.

b2. If a college declared Developmental Referral Method as "Course Taking Pattern": N/A.

c. DENOMINATOR:

c1. "Referral" or "Combination": Subsection IV, item 2. c1.

c2: If a college declared Developmental Referral Method as "Course Taking Pattern": N/A

NUMERATOR:

c1. Of the students in DENOMINATOR, unduplicated count of students who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code R, and Course Level with codes 1, or/and 2, or/and 3.

c2: If a college declared Developmental Referral Method as "Course Taking Pattern": N/A

**If a student was reported with more than one level, unduplicate to count student only under the number of levels/highest need in developmental education.*

5. Percent Students Became College Ready in Developmental Education Subject. (VFA Metrics Manual Version 7.0 [February 2019], page 25).

a. DENOMINATOR:

a1. Referral: Subsection II, item 1. a1.

- a2: Course Taking Pattern: Subsection IV, item 1. a2.
- a3. Combination: Subsection IV, item 1. a3.

NUMERATOR:

Unduplicated count of students in DENOMINATOR, who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code M, and Course Level with codes 0 and/or 1, and Successful Course Completion with code 1.

b. DENOMINATOR:

- b1. Referral: Subsection IV, item 1. b1.
- b2: Course Taking Pattern: Subsection II, item 1. b2.
- b3. Combination: Subsection II, item 1. b3.

NUMERATOR:

Unduplicated count of students in DENOMINATOR, who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code E, and Course Level with codes 0 and/or 1, and Successful Course Completion with code 1.

c. DENOMINATOR:

- c1. Referral: Subsection IV, item 1. c1.
- c2: Course Taking Pattern: Subsection II, item 1. c2.
- c3. Combination: Subsection II, item 1. c3.

NUMERATOR:

Unduplicated count of students in DENOMINATOR, who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code R, and Course Level with codes 0 and/or 1, and Successful Course Completion with code 1; or who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code E, and Course Level with code 0, and Successful Course Completion with code 1.

- 6. Percent Students Successfully Completed Any College-level course. (VFA Metrics Manual Version 6.0 [February 2019], page 26).

a. DENOMINATOR:

Unduplicated count of students who were identified as in need of Developmental Math Education (NUMERATOR IV. 1a).

NUMERATOR:

Unduplicated count of students who were identified as in need of Developmental Math Education (DENOMINATOR), and who were reported within credit course files for the two

academic years, starting with the cohort formation year, under data element Discipline with code M, and Course Level with code 0, and Successful Course Completion with code 1.

b. DENOMINATOR:

Unduplicated count of students who were identified as in need of Developmental English Education (NUMERATORS IV. 1b and 1c).

NUMERATOR:

Unduplicated count of students who were identified as in need of Developmental English Education (DENOMINATOR), and who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with code E, and Course Level with code 0, and Successful Course Completion with code 1.

7. Any Developmental Education Progress Measures, disaggregated by all Demographics and calculated for Main, Credential Seeking, and First Time in College cohorts.

a. Percent Students Needing Developmental Education in at Least One Subject. (VFA Metrics Manual Version 7.0 [February 2019], page 27).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Unduplicated count of students who were identified as in need of Developmental Education (NUMERATORS IV. 1a, 1b, 1c, unduplicated).

b. Percent of students Referred to Developmental Education in at least one subject. (VFA Metrics Manual Version 7.0 [February 2019], page 27).

DENOMINATOR

Unduplicated count of students in a cohort.

NUMERATOR:

Unduplicated count of students who were referred to Developmental Education (NUMERATORS IV. 2a, 2b, 2c, unduplicated).

c. Percent Students Attempted Any Developmental Education. (VFA Metrics Manual Version 7.0 [February 2019], page 27).

DENOMINATOR:

Unduplicated count of students who were referred to Developmental Education (NUMERATORS IV. 2a, 2b, 2c, unduplicated).

NUMERATOR:

Unduplicated count of students in DENOMINATOR who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with codes M and/or E, and/or R and Course Level with codes 1 and/or 2, and/or 3.

- d. Percent Students Who Became College-Ready. (VFA Metrics Manual Version 7.0 [February 2019], page 28).

DENOMINATOR:

Unduplicated count of students who were identified as in need of Developmental Education (DENOMINATORS IV. 5a, 5b, 5c, unduplicated).

NUMERATOR:

Unduplicated count of students in DENOMINATOR who were reported within credit course files for the two academic years, starting with the cohort formation year, under data element Discipline with codes M and/or E, and/or R and Course Level with codes 1 or 0 and Successful Course Completion with code 1 in all College Ready disciplines they were listed under in DENOMINATOR.

V. Two Year Progress Measures, disaggregated by all Demographics and calculated for Main, Credential Seeking, and First Time in College cohorts.

1. Percent Credits Successfully Completed in First Term (VFA Metrics Manual Version 7.0 [February 2019], page 38).

DENOMINATOR:

Sum of cohort's Fall term of cohort formation year attempted credit hours in any subject.

NUMERATOR:

Sum of a cohort's Fall term (cohort's formation term) successfully completed credit hours in any subject: DENOMINATOR, filtered by code 1 under Course Successful Completion.

2. Percent Credits Successfully Completed in Two Years (VFA Metrics Manual Version 7.0 [February 2019], page 39).

DENOMINATOR:

Sum of a cohort's credit hours attempted in any subject during two years starting with cohort formation year.

NUMERATOR:

Sum of successfully completed credit hours in any subject: DENOMINATOR, filtered by code 1 under Course Successful Completion.

3. Percent Students Not Successful in First Term (VFA Metrics Manual Version 7.0 [February 2019], page 40).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Unduplicated count of students in a cohort who accumulated "0" credit hours during term 1 of the cohort formation year under Earned Credit Hours.

4. Percent Students Retained from Fall to the Next Term (VFA Metrics Manual Version 7.0 [February 2019], page 40).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Unduplicated count of students in a cohort, found in Credit Course file for the cohort formation year under data element Term or Quarter, code 3: Spring (code 2: Winter for IHCC).
- b. Match cohort students with those in item a., flag unmatched.
- c. Match item b. students with MIS Awards file for the cohort formation year, flag matched.
- d. Using Award date, flag those students whose award date falls between Term 1 start and Term 1 end dates in college academic calendar for the cohort formation year.
- e. Sum up items a. and d.

5. Percent Students Reached Credit Thresholds in Two Years (VFA Metrics Manual Version 7.0 [February 2019], page 40).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Establish and flag PT and FT sub-cohorts, based on the number of credits attempted during Fall term of the cohort's formation year. Use sum of attempted credit hours of the students found under term 1 of cohort formation Course file, data element Course Credit Hours, with the following logic: =>12 attempted credits (=>8 for IHCC) = FT Student; <12 attempted credits (<8 for IHCC) = PT student.
- b. Match FT students to credit enrollment data for the two consecutive years starting with cohort formation year in Student Information file. Use data element T (Earned Credit Hours) from the examined years and establish the highest value. Flag the students with =>42 credits.

- c. Match PT students to credit enrollment data for the two consecutive years starting with cohort formation year in Student Information file. Use data element T (Earned Credit Hours) from the examined years and establish the highest value. Flag the students with =>24 credits.
 - d. Match cohort students to items b. and c., flag unmatched.
 - e. Match item d. students to Credit Awards for the same two consecutive years, flag matched.
 - f. Sum up items b., c., and e.
6. Percent Students Completed a Formal Award (VFA Metrics Manual Version 7.0 [February 2019], page 41).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

Match DENOMINATOR to Credit Awards for two consecutive years starting with cohort formation year, flag matched students, unduplicate.

7. Percent Students Transferred to 2-year or 4-Year institution (VFA Metrics Manual Version 7.0 [February 2019], page 41).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match DENOMINATOR to Credit Awards for two consecutive years starting with cohort formation year, flag unmatched students, unduplicate.
- b. Send resulting information to National Student Clearinghouse (NSC) for matching, with search starting date 09/01/2016.
- c. Use course file for the two consecutive years starting with cohort formation year to determine the latest enrollment date for each student in the cohort, unduplicate.
- d. Match NSC enrollment dates with those for the students in item c., to establish instances of transfer based on the following logic:
IF NSC "record Found" = "Y", AND NSC enrollment start date in another postsecondary institution precedes the end of the cohort's second academic year (identified as the last day before the beginning of Term 1 of the following academic year in the college academic calendar), AND NSC enrollment end date in another postsecondary institution(s) exceeds the latest course end date for a student under item c., flag the student as "transfer". If NSC enrollment end date is blank, flag the student as "transfer" only if that same NSC record start date exceeds the latest course end date for a student under item c., AND NSC enrollment start date in another postsecondary institution precedes the end of the cohort's second academic year.

8. Percent Students Still Enrolled (VFA Metrics Manual Version 7.0 [February 2019], page 41).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match item 7.a with item 7.d and flag unmatched students.
- b. Match resulting cohort with students in the second academic year starting from the cohort formation year course file, flag matched, unduplicate.

SIX YEAR COHORT

PART I: COHORT FORMATION

A. MAIN COHORT.

1. STARTING DATA SET: Fall Term Enrollment, FY2013 (calendar Fall 2012), Student Information File (matched to course file to establish enrollments in Term 1).
2. REMOVING STUDENTS IN RECIPROCAL AGREEMENT PROGRAMS: Starting data set MINUS students in Reciprocal Agreement programs (code 35 under Special Emphasis, student course file).
3. HIGH SCHOOL COMPLETION CREDENTIAL COHORT: #2, MINUS those students who have not received any type of HS completion credential (High School Award Type \neq 1, 2 or 5, student information file).
4. NON-EXCLUSIVELY-ESL STUDENT COHORT: #3 linked to Fall Enrollment, Fall of FY'13 (calendar Fall 2012), Credit Student Course File, MINUS those students who were enrolled exclusively in ESL or ESI courses (keep only students with first three characters in Course Number \neq "ESL or ESI").
5. MAIN COHORT: #4 MINUS students found in Credit Student Course Files for previous years with available Joint Enrollment data (FY2007-FY2012) as NOT enrolled as "still in HS" students (High School Enrollment Type = 0) and MINUS students found with First Enrollment (in this college) data <07/01/2006 (for all students found in enrollment prior to FY 2007).

B. CREDENTIAL SEEKING COHORT

1. Match students in the MAIN cohort to Credit Course files data to include: a. Summer Term (Term 4) for AY2011-2012; b. AY2012-13 (compiled from MIS files FY2013 and Summer of 2014 in FY2014 data), and c. AY2013-14 (compiled of FY2014 and summer of 2014 in FY2015 data).
2. Sum up total number of earned credits per student using data element Earned Credit Hours.
3. Filter by \Rightarrow 12 credits, unduplicate.
4. Filter 2. by <12 credit hours, unduplicate.
5. Match 4. to Credit Awards files data to include: a. Summer Term (Term 4) in FY2012 (awards with dates between the beginning of summer term for calendar 2012 and September 1, 2012); b. AY2012-13 (MIS FY2013); c. AY2013-14 (FY2014); unduplicate matched students; d. Summer term 4 (Term 4 of calendar 2014) in FY2015.
6. Union 3. And 5. for CREDENTIAL SEEKING cohort.

C. FIRST TIME IN COLLEGE

Use college-reported field "First-time in Any College".

PART II: CALCULATION METHODS, SIX YEAR COHORT (SEE REFERENCE IN 2 YEAR COHORT SECTION, AS 6 YEAR COHORT CALCULATION FOR 2 YEAR OUTCOMES ARE IDENTICAL TO 2 YEAR COHORT)

I. Six Year Outcome Measures, disaggregated by all Demographics and calculated for Main, Credential Seeking, and First Time in College cohorts.

1. Percent Students Completed Baccalaureate Degree (VFA Metrics Manual Version 7.0 [February 2019], page 43).

N/A

2. Percent Students Completed Associate Degree, then Transferred (VFA Metrics Manual Version 7.0 [February 2019], page 43).

DENOMINATOR:

Unduplicated count of students in the cohort.

NUMERATOR:

- a. Match DENOMINATOR to MIS Credit Awards for six years starting with cohort formation year, and filter by Award Types 1, 2, 3, 4, 5 and 9, unduplicate.
 - b. Match a. to NSC with search start date to equal latest 2-year degree date.
 - c. Filter by students who meet three conditions, and unduplicate:
 - Found in education;
 - Enrolled in other than original college;
 - Enrollment start date precedes the end of the tracking period (end of sixth AY since cohort formation year).
3. Percent Students Completed Associate Degree without Transfer (VFA Metrics Manual Version 7.0 [February 2019], page 43).

DENOMINATOR:

Unduplicated count of students in the cohort.

NUMERATOR:

- a. Match DENOMINATOR to MIS Credit Awards for six years starting with cohort formation year, and filter by Award Types 1, 2, 3, 4, 5 and 9, unduplicate.
 - b. Match a. to 2. NUMERATOR, keep unmatched.
4. Percent Students Completed Certificate, then Transferred (VFA Metrics Manual Version 7.0 [February 2019], page 43).

DENOMINATOR:

Unduplicated count of students in the cohort.

NUMERATOR:

- a. Match DENOMINATOR to MIS Credit Awards for six years starting with cohort formation year, and filter by Award Types 6 and 7, unduplicate.
 - b. Match a. to NUMERATOR 2 and 3, keep unmatched.
 - c. Match b. to NSC with search start date to equal latest award date.
 - d. Filter by students who meet three conditions, and unduplicate:
 - Found in education;
 - Enrolled in other than original college;
 - Enrollment start date precedes the end of the tracking period (end of sixth AY since cohort formation year).
5. Percent Students Completed Certificate without Transfer (VFA Metrics Manual Version 7.0 [February 2019], page 44).

DENOMINATOR:

Unduplicated count of students in the cohort.

NUMERATOR:

- a. Match DENOMINATOR to MIS Credit Awards for six years starting with cohort formation year and filter by Award Types 6 and 7, unduplicate.
 - b. Match a. to 2, 3 and 4. NUMERATOR, keep unmatched.
6. Percent Students Transferred (VFA Metrics Manual Version 7.0 [February 2019], page 44).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match DENOMINATOR to combined NUMERATORS 2, 3, 4, 5 and keep unmatched.
 - b. Match a. to NCS records and keep records that meet four conditions, unduplicate:
 - Found in education;
 - Enrollment end date in original college precedes the end of the tracking period (end of sixth AY since cohort formation year)
 - Enrolled in other than original college with enrollment end date to exceed that in original college;
 - Enrollment start date in other than original college precedes the end of the tracking period (end of sixth AY since cohort formation year).
7. Percent Students Still Enrolled (VFA Metrics Manual Version 7.0 [February 2019], page 44).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match DENOMINATOR to combined NUMERATORS 2, 3, 4, 5, 6 and keep unmatched.
- b. Match a. to MIS Student Information file for the sixth year since the cohort's formation year and keep matched students.

8. Percent Students Left with 30 or More Credits (VFA Metrics Manual Version 7.0 [February 2019], page 44).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match DENOMINATOR to combined NUMERATORS 2, 3, 4, 5, 6, 7 and keep unmatched.
- b. Identify the latest year of enrollment in original college by matching a. to MIS Student Information files for all six tracking years.
- c. Use Earned Credit Hours in MIS student information file of the year when the student left and filter by =>30 hours.

9. Percent Students Left with Less Than 30 Credits (VFA Metrics Manual Version 7.0 [February 2018], page 44).

DENOMINATOR:

Unduplicated count of students in a cohort.

NUMERATOR:

- a. Match DENOMINATOR to combined NUMERATORS 2, 3, 4, 5, 6, 7, 8 and keep unmatched.
- b. Identify the latest year of enrollment in original college by matching a. to MIS Student Information files for all six tracking years.
- c. Use Earned Credit Hours in MIS student information file of the year when the student left and filter by <30 hours.

CAREER AND TECHNICAL EDUCATION (CTE)

PART I: CTE PROFILE

A. CTE Credit Profile (VFA Metrics Manual Version 7.0 [February 2019], page 48).

Iowa Definitions:

a. CTE Credit Enrollment Student:

A non-HS community college student enrolled in a CTE program(s) any time during reporting period.

b. CTE Credit Program:

Any program with occupationally specific Classification of Instructional Program (CIP) code.

c. Occupationally specific CIP:

CIP number that belong to one of the 16 Advance CTE career clusters.

d. Enrollment reporting period:

Enrollment in courses with end dates between September 1 and August 31 of the reported academic year.

e. Associate Degree in CTE:

Associate of Science/Career Option (ASCO), Associate of Applied Arts (AAA), Associate of Applied Science (AAS) or Associate of Professional Studies (APS) award.

f. Credit CTE certificate of more than or equal to 1 year:

A credit Diploma or Certificate with ≥ 22 credit hours.

g. Credit CTE certificate of less than one year:

A credit Diploma or Certificate of with <22 credit hours.

h. Credit Award Academic Year:

A period of time between September 1 and August 31 within reporting years.

CTE Credit Profile measures:

1. Annual Percentage Change of Credit CTE Enrollment.

DENOMINATOR:

Unduplicated count of students in MIS Credit Course file for AY2015-16 who were enrolled with High School Enrollment Type codes $\langle \rangle$ 1 or 2 or 3 and Type of program $\langle \rangle$ 08, $\langle \rangle$ 09, $\langle \rangle$ 10.

NUMERATOR:

Unduplicated count of students in MIS Credit Course file for AY2016-17 who were enrolled with High School Enrollment Type codes $\langle \rangle$ 1 or 2 or 3 and Type of program $\langle \rangle$ 08, $\langle \rangle$ 09, $\langle \rangle$ 10.

2. Change in Number of Awards in CREDIT CTE, replicated for Associate Degrees, certificates \geq 1 year, and certificates $<$ 1 year.

2a. DENOMINATOR:

Unduplicated count of students in MIS Credit Award files for AY2015-16 (award dates starting with September 1, 2015) and AY2016-17 (award dates prior to September 1, 2016) who were reported with CTE Associate Degree award type codes 4 (AAA), 5 (AAS), 9 (APS) and award type code 2 (AS) under type of program code 06 (AS/CO).

2a. NUMERATOR:

Unduplicated count of students in MIS Credit Award files for AY2016-17 who were reported with CTE Associate Degree award type codes 4 (AAA), 5 (AAS), 9 (APS), and award type code 2 (AS) under type of program code 06 (AS/CO).

2b. DENOMINATOR:

Unduplicated count of students in MIS Credit Award files for AY2015-16 who were not reported under 2a. DENOMINATOR and reported with at least one CTE Certificate or Diploma, award type codes 6 (Diploma) and 7 (Certificate) and award credit hours \geq 22 (established by matching award IDs to CurricUNET program data).

2b. NUMERATOR:

Unduplicated count of students in MIS Credit Award files for AY2016-17 (award dates starting with September 1, 2015) who were not reported under 2a. NUMERATOR and reported with at least one CTE Certificate or Diploma, award type codes 6 (Diploma) and 7 (Certificate) and award credit hours \geq 22 (established by matching award IDs to CurricUNET program data).

2c. DENOMINATOR:

Unduplicated count of students in MIS Credit Award files for AY2015-16 who were not reported under 2a. DENOMINATOR and 2b. DENOMINATOR and reported with at least one CTE Certificate or Diploma, award type codes 6 (Diploma) and 7 (Certificate) and award credit hours $<$ 22 (established by matching award IDs to CurricUNET program data).

2c. NUMERATOR:

Unduplicated count of students in MIS Credit Award files for AY2016-17 who were not reported under 2a. NUMERATOR and 2b. NUMERATOR and reported with at least one CTE Certificate or Diploma, award type codes 6 (Diploma) and 7 (Certificate) and award credit hours $<$ 22 (established by matching award IDs to CurricUNET program data).

B. CTE Non-Credit Profile (VFA Metrics Manual Version 6.0 [February 2018], page 40).

Iowa Definitions:

- a. CTE Non-Credit Enrollment Student:

A non-credit community college student enrolled in a CTE program(s) any time during reporting period.

b. CTE Non-Credit Program:

Any program with occupationally specific Classification of Instructional Program (CIP) code and Type of Program 04 (Career/Vocational Training and Upgrading) and Type of Program 42 (Economic Development). Additionally, Non-Credit CTE program include: Type of Program 44 with CIP Number 6104000000 (Coaching Authorization).

c. Occupationally specific CIP:

CIP number that belongs to one of the 16 NCES career clusters.

d. Enrollment reporting period:

Enrollment in courses reported under reporting academic year (AY).

e. Non-credit CTE program completer:

A student reported by college as Locally Recognized CTE program completer within reporting AY.

CTE Non-Credit Profile measures:

1. Annual Percentage Change of Non-Credit CTE Enrollment.

DENOMINATOR:

Duplicated count of students in MIS Non-Credit Course file for FY2016 and summer of calendar 2016 (obtained from AY2016-17 files) who were enrolled in CTE programs/courses defined here.

NUMERATOR:

Duplicated count of students in MIS Non-Credit Course file for AY2016-17 who were enrolled in CTE programs/courses defined here.

2. Annual Percentage Change of Non-Credit CTE “Completions”.

DENOMINATOR:

Duplicated count of students in MIS Non-Credit Awards file for FY2016 and AY2016-17 (with award dates prior to September 1, 2016), code 5, who completed CTE programs/courses defined here.

NUMERATOR:

Duplicated count of students in MIS Non-Credit Awards file for AY2016-17 (with award dates past August 31, 2016), code 5, who completed CTE programs/courses defined here.

PART III: CTE COMPLETER/LEAVER COHORT and MEASURES

Iowa Definitions:

In order to conduct successful tracking into workforce and/or further education, only students with valid reported SSNs, names and DOBs are considered for this cohort.

1. CREDIT CTE Completer/Leaver Cohort AND Disaggregation of Credit Completer/Leaver Cohort (VFA Metrics Manual Version 7.0 [February 2019], page 53).
 - a. Match MIS Credit Student file for AY2015-16 and summer data of calendar 2016 (obtained from AY2016-17 data) to MIS Credit Student file for AY2016-17 and form a list of students who were not found in the latter.
 - b. Use MIS Credit Awards files for AY2016-17 to compile an unduplicated list of students who have received one or more awards between August 31, 2015 and September 1, 2016 and flag students who received an Associate Degree or a combination of degrees/awards that includes an Associate Degree with code "A"; flag students who received a certificate, a Diploma, or a combination of awards that does not include an Associate Degree with code "C".
 - c. Match a. and b. to compile an unduplicated list of unmatched students in b. category.
 - d. Match Common Course Numbers (CCN) in data in MIS Credit Course Enrollment files (AY2015-16) with unduplicated list of CCN per college in state CCN system (CurricUNET) to obtain a CTE flag (course type "C") for each credit course.
 - e. Match c. to d. and sum the number of credit hours for completed CTE courses for students in c. cohort; filter by => 7 credit hours and flag the students with flag "L".
 - f. Combine b. and e. cohorts and remove students without SSNs for a Credit CTE Completer/Leaver cohort.

2. NON-CREDIT CTE Completer/Leaver Cohort (VFA Metrics Manual Version 7.0 [February 2019], page 54).

In order to conduct successful tracking into workforce and/or further education, only students with valid reported SSNs, names and DOBs are considered for this cohort.

- a. Match MIS Non Credit Student file for AY2015-16 to MIS Non-Credit Student file for AY2016-17 and form a list of students who were not found in the latter.
 - b. Use Non-Credit Awards files for AY2015-16, codes 4 and 5 for Award Type, CTE programs as defined here, unduplicate.
 - c. Match a. and b. to compile an unduplicated list of unmatched students in b. category.
 - d. Match c. with data in Non-Credit course files for AY2014-15 and AY2015-16, filter by CTE programs as defined here, sum all Contact hours per student, filter by =>180 hours.
 - e. Combine b. and d. cohorts and remove students without SSNs for a Non-Credit CTE Completer/Leaver cohort.
3. Percent of students with Prior Bachelor's degree or higher: replicate for "A", "C" and "L" sub-cohorts (VFA Metrics Manual Version 7.0 [February 2019], page 54).

DENOMINATOR:

Unduplicated count of students in a Credit CTE cohort.

NUMERATOR:

DENOMINATOR matched to Credit Student Information file for AY2015-16, data element Highest Degree Earned at Another Postsecondary Institution, codes 3 or 4, unduplicate.

No data for Non-Credit cohort.

4. Percent of students with Prior Associate degree: replicate for "A", "C" and "L" sub-cohorts (VFA Metrics Manual Version 7.0 [February 2019], page 54).

DENOMINATOR:

Unduplicated count of students in a Credit CTE cohort.

NUMERATOR:

DENOMINATOR matched to Credit Student Information file for AY2015-16, data element Highest Degree Earned at Another Postsecondary Institution, code 2.

No data for Non-Credit CTE cohort.

5. Licensure Exam Pass rate (VFA Metrics Manual Version 7.0 [February 2019], page 55).

No data for either credit or NC cohorts.

6. Percent Students Awarded Industry-Recognized Credential (Certifications) (VFA Metrics Manual Version 7.0 [February 2019], page 55).

No data for Credit CTE cohort.

NC CTE Cohort, limited data.

DENOMINATOR:

NON-CREDIT CTE Completer/Leaver Cohort

NUMERATOR:

Of DENOMINATOR, unduplicated count of students who were reported under code 4 in NC Awards for AY2015-16 and AY2016-17.

7. Median Wage Growth (VFA Metrics Manual Version 7.0 [February 2019], page 55).
 - a. Median Pre-CTE Earnings (CTE Completer/Leaver Cohort, sub-sets of "A", "C", "L" for Credit CTE sub-cohort and NC sub-cohort)
 - Match the cohort to NSC records with search start date 10/1/2017.
 - Remove students who were enrolled in PS education between 10/1/2017 and 12/31/2017
 - Match the remainder of the cohort to UI unemployment records and establish median wages of the cohort's students for 2nd quarter of 2011 and 2nd quarter of 2013.
 - Remove students who's median wage in 2nd quarter of 2013 was <\$3,625.
 - Calculate median Pre-CTE Earnings.
 - b. Median Post-Departure Wage (CTE Completer/Leaver Cohort, sub-sets of "A", "C", "L" for Credit CTE sub-cohort and NC sub-cohort)
 - Match cohort a. to UI unemployment records and establish median wages of the cohort's students for 1st quarter of 2018.

- Calculate median Post-Departure Wage.

8. CTE Education and Earnings Outcomes (VFA Metrics Manual Version 7.0 [February 2019], page 56).

DENOMINATOR:

CTE Completer/Leaver Cohort, sub-sets of “A”, “C”, “L” for Credit CTE sub-cohort and NC sub-cohort

NUMERATOR:

- a. Of DENOMINATOR (sub-sets “A”, “C”, “L” and NC), use NSC data from 7a. to establish the number of students who were enrolled in a postsecondary institution in the first quarter of 2018 (January—March 2018).
 - b. Match the remainder of the DENOMINATOR (DENOMINATOR minus a.) to UI unemployment records, establish median wages of the cohort’s students for the 1st quarter of 2018, and calculate median annualized wages based on that quarter.
 - c. Disaggregate b. into following wage ranges/categories: \$1 - \$14,999; \$15,000 - \$22,499; \$22,500 - \$29,999; \$30,000 - \$39,999; \$40,000 - \$50,199; \$50,200 or more; Unemployed/unknown.
 - d. 100% NUMERATOR = all sub-categories under a. and c.
9. Percent Students Transition to Credit Work (VFA Metrics Manual Version 7.0 [February 2019], page 57).

DENOMINATOR:

Match CTE Completer/Leaver Cohort to AY2014-15 credit enrollments to establish the cohort that was not enrolled in credit courses in this college and trim by those who were not found in credit enrollment.

NUMERATOR:

Match DENOMINATOR to MIS Credit Student Information file for AY2016-17 and establish the number of students found in credit enrollment.

ADULT EDUCATION

1. **ABE Cohort:** AY 2015-2016 (Program Year) – all students who are federally enrolled and those who completed the HSED (High School Equivalency Diploma). ((VFA Metrics Manual Version 7.0 [February 2019], p.58 Explanation of ABE cohort)
 - a. All those who received a HSED diploma in program year 2015-2016 (7/1/2015 and 6/30/2016)
 - b. All students federally reported in program year 2015-2016
 - c. Validate college number and ssn.
 - d. Identify distinct ID with college and valid SSN.
 - e. Determine age, race, and gender. If conflict exists between tables, select max value.

2. **Cohort Disaggregation:** (p.59) “Disaggregation definitions can be found on page 18.” (VFA Metrics Manual Version 7.0 [February 2019], page 18).
 - a. Race/ethnicity: determined based on the data available in the federal table and the HSED table. Select max value.
 - i. American Indian/Alaskan – coded in federal table as race group 1 or 'American Indian or Alaskan Native' in HSED table
 - ii. Asian - coded in federal table as race group 2 or 'Asian' in HSED table
 - iii. Black or African American - coded in federal table as race group 3 or 'Black or African American' in HSED table
 - iv. Hawaiian Native or Other Pacific Islander - coded in federal table as race group 6 or 'Native Hawaiian or Other Pacific Islander' in HSED table
 - v. Hispanic - coded in federal table as race group 4 or 'Hispanic Origin or Descent' in HSED table
 - vi. White - coded in federal table as race group 5 or 'White' in HSED table
 - vii. Two or more races - coded in federal table as race group 7 or race is not null and race not in ('American Indian or Alaska Native', 'Asian', 'Black or African', 'Mexican', 'Hispanic Origin or Descent', 'White', 'Native Hawaiian or Other Pacific Islander', 'I prefer not to respond', 'Other') in HSED table
 - viii. Unknown – no code indicated in federal or HSED table or Unknown indicated in federal table or 'I prefer not to respond' or 'Other' in HSED table
 - ix. Nonresident Alien – data not indicated in the federal or HSED table so will be 0
 - b. Age: identify based on cohort’s AY 2015-2016 (Program Year), data element dob in the federal table and Birth in the HSED table, age in years as of September 1 of the cohort’s year, and aggregate into categories <20, 20-24, 25-29, 30-39, 40-49, =>50, Age Unknown (=Birth Date is blank). Select max value.
 - c. Gender: determined based on the data available in the TE database in the federal table and the HSED table. Select max value.
 - i. Male – when field Sex is indicated as ‘1’ in federal table OR if not ‘2’ or blank and indicated as ‘Male’ in the HSED table
 - ii. Female – when field Sex is indicated as ‘2’ in federal table OR if not ‘1’ or blank and indicated as ‘Female’ in the HSED table
 - iii. Unknown – when field Sex is not indicated as ‘1’ or ‘2’ in the federal table AND not indicated as ‘Male’ or ‘Female’ in the HSED table.
3. **Measures:** (VFA Metrics Manual Version 7.0 [February 2019], pp. 59-60)
 - a. Percent of students that completed ABE
 - i. Numerator: All those in ABE Cohort who already had a HS diploma PLUS All those in ABE Cohort who received a HSED by the end of the program year (June 30) which is prior to Sept. 1 PLUS all those who completed ABE Level 5 PLUS All those who completed ESL Level 6
 - ii. Denominator: ABE Cohort
 - b. Percent of ABE completers that enrolled in additional education
 - i. Numerator: All those in ABE Cohort who already had a HS diploma PLUS All those in ABE Cohort who received a HSED by the end of the program year (June 30) which is prior to Sept. 1 PLUS all those who completed ABE Level 5

PLUS All those who completed ESL Level 6

AND

have a National Student Clearing House (NSCH) match by June 30, 2017 OR have a MIS non-credit data match for AY 2016-2017 except those with a type of program 40.

ii. Denominator: ABE Completers

c. Percent of ABE completers that gained employment

i. Numerator: All those in ABE Cohort who already had a HS diploma PLUS All those in ABE Cohort who received a HSED by the end of the program year (June 30) which is prior to Sept. 1 PLUS all those who completed ABE Level 5 PLUS All those who completed ESL Level 6

AND

have a data match with IWD with an income above the local quarterly minimum wage in the 1st quarter of 2018 (Jan.-Mar. 2018).

ii. Denominator: ABE Completers

4. Measure Calculations:

a. Percent of students that completed ABE

i. Numerator: Completed ABE

1. All those in ABE Cohort who already had a HS diploma

a. All those in the ABE Cohort where highest diploma or degree earned is not None or is Unknown and school was not outside U.S. Use earned_id >='0003' and schooloutsideUS=0

i. Values

1. 0001 – Blank

2. 0002 – None

3. 0003 – HSE Certificate

4. 0004 – HS Diploma

5. 0005 – Technical Certificate

6. 0006 – A.A./A.S. Degree

7. 0007 – 4 year college graduate

8. 0008 – Higher than B.A./B.S. degree

9. 0009 – Other Diploma/Degree

10. 0556 – Some college, no degree

2. All those in ABE Cohort who received a HSED by the end of the program year.

a. All those in HSED table.

3. All those who completed ABE Level 5 in federal table.

a. All those with funclevel=5 and completedlevel=1

4. All those who completed ESL Level 6 in federal table.

a. All those with funclevel=12 and completedlevel=1

ii. Denominator: ABE cohort

b. Percent of ABE completers that enrolled in additional education

i. Numerator: Transition to College

1. All those in ABE Cohort who already had a HS diploma

- a. All those in the ABE Cohort where highest diploma or degree earned is not None or is Unknown and school was not outside U.S. Use earned_id >='0003' and schooloutsideUS=0
 - i. Values
 - 1. 0001 – Blank
 - 2. 0002 – None
 - 3. 0003 – HSE Certificate
 - 4. 0004 – HS Diploma
 - 5. 0005 – Technical Certificate
 - 6. 0006 – A.A./A.S. Degree
 - 7. 0007 – 4 year college graduate
 - 8. 0008 – Higher than B.A./B.S. degree
 - 9. 0009 – Other Diploma/Degree
 - 10. 0556 – Some college, no degree
- 2. All those in ABE Cohort who received a HSED by the end of the program year.
 - a. All those in HSED table.
- 3. All those who completed ABE Level 5 in federal table.
 - a. All those with funclevel=5 and completedlevel=1
- 4. All those who completed ESL Level 6 in federal table.
 - a. All those with funclevel=12 and completedlevel=1
- 5. All those who have a National Student Clearing House (NSCH) match by June 30, 2018. (VFA Metrics Manual Version 7.0 [February 2019], page 60)
- 6. All those who have a MIS non-credit data match for AY 2017-2018 except those with a type of program 40.
- ii. Denominator: ABE Completers
- c. Percent of ABE completers that gained employment
 - i. Numerator: Transition to College
 - 1. All those in ABE Cohort who already had a HS diploma
 - a. All those in the ABE Cohort where highest diploma or degree earned is not None or is Unknown and school was not outside U.S.. Use earned_id >='0003' and schooloutsideUS=0
 - i. Values
 - 1. 0001 – Blank
 - 2. 0002 – None
 - 3. 0003 – HSE Certificate
 - 4. 0004 – HS Diploma
 - 5. 0005 – Technical Certificate
 - 6. 0006 – A.A./A.S. Degree
 - 7. 0007 – 4 year college graduate
 - 8. 0008 – Higher than B.A./B.S. degree
 - 9. 0009 – Other Diploma/Degree
 - 10. 0556 – Some college, no degree

2. All those in ABE Cohort who received a HSED by the end of the program year.
 - a. All those in HSED table.
 3. All those who completed ABE Level 5 in federal table.
 - a. All those with funclevel=5 and completedlevel=1
 4. All those who completed ESL Level 6 in federal table.
 - a. All those with funclevel=12 and completedlevel=1
 5. All those that have a data match with IWD with an income above the local quarterly minimum wage in the 1st quarter of 2018 (Jan.-Mar. 2018). (VFA Metrics Manual Version 7.0 [February 2019], page 60)
- ii. Denominator: ABE Completers