**Student Achievement Advisory Committee Recommendations**

***Approved by WACTC, July 21, 2017***

***Approved by State Board, September 13, 2017***

# Student Achievement 3.0 Metric Calculations

## **1. Basic skills**

In SAI 3.0, the emphasis shifts from completing short levels of competency gains to making larger gains as measured by the federal requirements and moving into college-level work. Overall basic skills points can be earned in 3 ways and display as separate fields in the database.

1. Federal level gains (BasicSkills\_TestGains)

Federal level gains are awarded in two ways. The first is under CASAS testing and the federal level gain. This is achieved when a student advances to a higher order rank from their lowest pre-test compared to their highest post-test in the same subject area. This point can be earned multiple times if there are multiple subject areas, but the same gain cannot be earned in more than one year. For example, the student moves from ABE 3 to ABE 4 in English in 2015-16. If they come back the following year and test again into ABE 3 in English, they cannot earn the point again. This aligns with other components of SAI that do not allow a point to be earned more than once.

The process uses the WABERS tables to bring testing information into the calculation. The first step brings in the highest post-test from the prior year to be used as a pretest. If there is no testing data from a prior year, the minimum pretest from the current year is used. This steps keeps students from earning the same points over and over each year as in the example above. This also accounts for different periods of participation. Next the maximum post test score from the current year is brought into the calculation. A test gain table (see below) is used to calculate the differences between the pre and post-tests to determine gains. This table treats ESL and ABE test ranges the same, which errs on the side of giving more points than a strict federal level gain definition, which has different ranges for ESL at the high and low ends.

|  |  |  |
| --- | --- | --- |
| Listening | Reading | Math |
| > = 228 | > = 256 | > = 256 |
| 219-227 | 246-255 | 246-255 |
| 210-218 | 236-245 | 236-245 |
| 200-209 | 221-235 | 221-235 |
| 190-199 | 211-220 | 211-220 |
| 181-189 | 201-210 | 201-210 |
| < = 180 | 191-200 | 191-200 |
|  | 181-190 | 181-190 |
|  | < = 180 | < = 180 |

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| **CASAS testing** |  |  |
| Table | Field name | Criteria |
| WABERS\_tblStudent | Federally reportable | 1 |
|  | AND |  |
| WABERS\_tblTesting | SCALESCORE | Highest post test score in the prior two years in each subject or minimum pretest = **pre level rank**  Highest post test score in the current year = **post level rank**  **1 point is awarded for each level “rank” gain** |

2. Level gains for high school credit option (BasicSkills\_CreditGains)

The second type of gain is through high school credit competencies. The point calculation is constructed to mirror level gains as measured by ABE students taking the CASAS test with the following assumptions:

a. Students who come into the program with more than 3 credits required for high school competency completion are considered ABE 5.

b. Students who come into the program with 3 or less credits to go in their program are considered ABE 6

c. High school credit option begin at a high level and therefore have fewer gains to make. ABE students at levels 5 and 6 who are not in the credit option typically take at least two subjects, so to simulate similar possible point gain, the credit option points are constructed as follows:

* Students who enter at ABE 5 earn two points when they reach ABE 6
* Students at ABE 6 earn two points when they complete the credit requirements for their high school credential.

This criteria results in a maximum of **4 points** for a high school credit option student beginning in ABE level 5.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| **High school credit** |  | |
| Table | Field name | Criteria |
| WABERS\_tblStudent | Federally Reportable | 1 |
|  | AND |  |
| WABERS\_tblStudentHSGradPlan | GradPlanID | Determines required HS credits for completion |
| WABERS\_tblStudentHScredits | CreditAssign | Determines which credits are previous and which are earned within the program |
| Calculation:  when PreviousCredits >= RequiredCredits then 0  when RequiredCredits - PreviousCredits between 0.01 and 3  and RequiredCredits - (PreviousCredits + CurrentCredits) = 0 then 2  when RequiredCredits - PreviousCredits > 3  and RequiredCredits - (PreviousCredits + CurrentCredits) = 0 then 4  when RequiredCredits - PreviousCredits > 3  and RequiredCredits - (PreviousCredits + CurrentCredits) between 0.01 and 3 then 2 | | |

3. Completion of a high school diploma or GED (BasicSkills\_HSCompletion)

Students earn one point for the completion of a high school diploma or equivalency

*Criteria:*

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| tblStudentWABERS | HSE and HSC | 1 |

4. Transition to college level coursework (BasicSkills\_CollegeTransition)

To encourage participation in the ability to benefit policy, a current or prior basic skills student earns an achievement point when they successfully earn their first 6 college-level credits. This point can only be earned once.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3 | CurrentorPriorBasicSkills | Y |
| STUCLASS\_GRADE (Transcript) | CR | > = 6 |
|  | EARN\_IND | Y |
|  | CLVL\_IND | Y |
|  | GR\_DEC | >= 1.0 or |
|  | GR | S, P, or CR |

## **Precollege**

In SAI 3.0 there are no points awarded for the completion of a precollege course or sequence. Rather, prior precollege coursework is used to award an *extra* point after a student successfully completes a college-level math or communication course.

### 5. Precollege English (CollegeReadyEnglish\_Points)

A point is awarded after the college-level English/Communication point is earned for students who passed any precollege reading, writing, or communication class in the current or prior year. The extra point based on prior precollege course enrollment can only be earned one time.

*Criteria*:

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3 | CommCourses | Y |
| STUCLASS\_GRADE | EARN\_IND | Y |
| CIP | 330102, 330103, 330104, 330105, 330106, 330108 |
| Course\_Num | <100 |
|  | Or |  |
| UNUSUAL Action Code | Set current or prior precollege | !1, !2, !3, !4 |
|  | And | Finished college course |

### 6. Precollege math (CollegeReadyMath\_Points)

A point is awarded after the quantitative point is earned for students who passed any precollege math class in the current or prior year. The extra point based on prior precollege course enrollment can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3 | QuantCourse\_Points | Y |
| STUCLASS\_GRADE | EARN\_IND | Y |
| CIP | 330101 |
| Course\_Num | <100 |
|  | Or |  |
| UNUSUAL Action Code | Set current or prior precollege | !1, !2, !3, !4 |
|  | And | Finished college course |

## **7. College-level English/Communication**

(CommCourses). The college-level English/Communication is a new point in SAI 3.0. This point reflects the system focus on college-level key milestone course attainment and serves the extra point signifier for students coming into college-level through developmental and basic education courses. The point is awarded for successful completion of ENGL& 101 OR another college-level communication course that counts towards a professional-technical degree’s communication requirement. The latter criteria is college-specific and comes from a list of applicable courses that is provided to the state board each year. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE | DEPT\_DIV | ENGL& |
|  | COURSE\_NUM | 101 |
|  | EARN\_IND | Y |
|  | CLVL\_IND | Y |
|  | GR\_DEC | >= 1.0 or |
|  | GR | S, P, or CR |
| OR | | |
| COMM COURSE LISTING | DEPT\_DIV |  |
|  | COURSE\_NUM | Must be greater than or equal to 100 |
| AND | | |
| STUCLASS\_GRADE | CLVL IND | Y |
|  | GR\_DEC | >=1.0 or |
|  | GR | S,P, or CR |

## **8. First 15 credits**

(15ClvlCR\_Points) No change to the point in SAI 3.0. A point is awarded when a student earns 15 cumulative college level credits. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE | CR | SUM >= 15 |
|  | CLV\_IND | Y |
|  | EARN\_IND | Y |
|  | GR\_DEC | >= 1.0 or |
|  | GR | S, P, or CR |

## **9. First 30 credits**

(30ClvlCr\_Points) No change to the point in SAI 3.0. A point is awarded when a student earns 30 cumulative college level credits. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE | CR | SUM >= 30 |
|  | CLV\_IND | Y |
|  | EARN\_IND | Y |
|  | GR\_DEC | >= 1.0 or |
|  | GR | S, P, or CR |

## **45 college level credits**

### 10. 45 workforce credits (45CrWorkforce)

No change to the point in SAI 3.0. A point is awarded when a student earns 45 cumulative college level credits, with at least 30 credits from workforce courses. Students must have a cumulative GPA of 2.0 or higher in the college-level courses. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE | CR | Cumulative SUM >= 45 |
|  | VOC\_IND | Y (for at least 30 total credits) |
|  | CLV\_IND | Y |
|  | EARN\_IND | Y |
|  | GR\_DEC | >= 1.0 or |
|  | GR | S, P, or CR |

### 11. 45 Transfer Credits (45Transfer)

No change to the point in SAI 3.0. A point is awarded when a student earns 45 cumulative college level credits, with credits from each of the distribution areas of English/Communication, quantitative reasoning, science, social science, and humanities. Students must have a cumulative GPA of 2.0 or higher in the college-level courses. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE |  |  |
| **Requirements for all courses** | CR CLVL\_IND EARN\_IND GR\_DEC or GR | Cumulative SUM >=45 Y Y 1.0 or S, P, or CR |
| **English/Communication** | Dept\_Div Course\_Num CR | ENGL& 101 >0 |
| **Quantitative reasoning** | CIP or DEPT\_DIV and Course\_NUM CR | Like 27\* except 27.998 or PHIL&  117 or 120 >0 |
| **Humanities** | CR CIP Table: SUBJECT\_CLUSTER CIP Table: CIP\_TYPE | >0 05 M or is null |
| **Social Science** | CR CIP Table: SUBJECT\_CLUSTER CIP Table: CIP\_TYPE | >0 04 M or is null |
| **Science** | CR CIP Table: SUBJECT\_CLUSTER CIP Table: CIP\_TYPE | >0 02 or 12 M or is null |

## **12. Quantitative reasoning**

(QuantCourse\_Points). No change to the point in SAI 3.0. A point is awarded after the student completes 5 credits in either a college-level math course or PHIL& 117 or 120. This point can only be earned one time.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUCLASS\_GRADE | EARN\_IND | Y |
| CLVL\_IND | Y |
| CIP | 27\* or |
| DEPT\_DIV+COURSE\_NUM\_PREFIX | ‘PHIL&117’ or ‘PHIL&120’ |
| Course\_Num | >=100 |
| GR\_DEC | >= 1.0 or |
| GR | S, P, or CR |
| CR | >=5 |

## **13. Retention**

(Retention\_Point). No change in SAI 3.0. A point is awarded when a student earns any momentum point and had been enrolled as a funding formula eligible student in the prior year.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3.0\_Points | (current year) Total Points | >0 |
|  | AND | |
| SAI3.0\_Points | (Previous year) Funding\_Formula\_Eligible | =Y |

## **14. Completion**

(Completion\_Points). No change in SAI 3.0. A point is awarded after a student earns any of the following awards: certificate (20-44 credits), certificate (45 or more credits), degree, or apprenticeship. Only one point can be earned in a given academic year.

*Criteria:*

The flag is set to “Y” if:

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| All\_Apprenticeship\_Completers | SID | Record exists |
| STUCLASS\_OUTCOMES | EXIT\_CODE | 1-4 and A-Y |
|  |  |

# Extra point and special population criteria

## **Equity:** An additional point is awarded for each of the following groups of students at the time of the first 15 credit point and at degree or apprenticeship attainment. The extra point is duplicative if students are a member of more than one group (maximum 4 points).

* 1. Low-income student (HU\_income)

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3.0\_Demographics | SES | = 5 |

**b.** Historically underrepresented students of color (African American, Hispanic, Native American, Pacific Islander) (HU\_raceEthnicity)

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| STUDENT | Race\_ethnic\_ind\_2 | Like “?1?????” or  Like “??1????” or  Like “???1???” or  Like “??????1” |

c. Basic skills student (CurrentOrPrior Basic Skills). ***Basic skills students earn an extra point for all college-level points, not just first 15 and completion.***

|  |  |  |
| --- | --- | --- |
| Table | Field name | Criteria |
| SAI3.0\_Demographics | CurrentorPriorBS | Y |

The current or prior basic skills flag is set if in the current or previous 2 academic years they had a federally reportable status in WABERS.

# Funding Categories

Colleges receive a portion of their state allocation based on their share of performance in three areas; total points (less completions), completions, and points per student. In SAI 3.0, every student with an enrollment record is processed and included in the metric tracking database. However, **only points generated by state-funded students count for funding calculations.** Further, only award-seeking and basic education students are counted in the **points per student** funding metric***.*** This primarily excludes students who are taking job upgrade classes, apprenticeship work not leading to a credential, and community education courses.

|  |  |  |
| --- | --- | --- |
| Metric | Table | Criteria for inclusion |
| Total points less completions | STUDENT | Fund\_Source\_Priority\_Category = 1  AND  INTERNATIONAL\_STUDENT = N  AND  DUAL\_ENROLL is null or in 6,7,8 |
| Completions | STUDENT | Fund\_Source\_Priority\_Category = 1  AND  INTERNATIONAL\_STUDENT = N  AND  DUAL\_ENROLL is null or in 6,7,8 |
| Points per student | STUDENT  And  SAI 3.0 | Fund\_Source\_Priority\_Category = 1  AND  INTERNATIONAL\_STUDENT = N  AND  DUAL\_ENROLL is null or in 6,7,8  And  Kind\_of\_basic skills = is not null  OR  (Last\_Intent = A, B, F, G, I, or M) |