Soft Drinks and Hard Data: Using High School GPA for Placement: The Benefits and Unintended Consequences

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Using HSGPA for Placement

• Before we make decisions about student placement, which will affect tens of thousands of students, we need to fully understand what we do now, and what we propose to do

• This presentation addresses the proposed use of HSGPA as a single measure, apart from ACT/SAT scores (first) and Compass/Accuplacer (second), both of which most institutions have already accepted as independent single measures
What are Community Colleges Doing Now?

• First, typically ACT/SAT, then Compass/Accuplacer
• ACT: Achievement test designed to tell us about student knowledge of math and English
  • Criterion-referenced test
  • Subject-specific
  • Not aptitude test, nor normed
• Compass/Accuplacer: Similar to ACT knowledge-based test, designed as placement test for more basic skills
What are Community Colleges Doing Now?

• Why do we use ACT/SAT and Compass/Accuplacer?
• Achievement tests place students into courses that assess their content knowledge
• Entire purpose of placement is to assess student knowledge, place students into appropriate courses, and to remediate deficient skills if necessary
• Fewer staff, restricted budgets, and less time have all led to institutions typically relying on a single measure
Using HSGPA for Placement

• CCRC researchers recommend HSGPA for placement
• Regression analyses suggest 14-28% of students are misplaced (Scott-Clayton & Stacey, 2015)\(^1\)
• HSGPA can be used together with placement tests (mixed measure); or can be used alone to place students into college-level or remedial courses
• Why? HSGPA “predicts success in college better”
• We will discuss shift in placement philosophy later
Using HSGPA for Placement

• Now that we know a little more about placement tests, let’s explore what HSGPA is
• What does HSGPA say about a student?
  • What does a high HSGPA tell us?
  • What does a low HSGPA tell us?
• Talk to your neighbors and come up with as many things you think HSGPA tells us about students (keep in mind it’s 3 to 4 years of cumulative HSGPA)
What Does HSGPA Say About a Student?

- Content knowledge
- Vocabulary
- Passing classes
- Type of classes taken
- Attendance
- Participation

- Handing in HW
- Organization
- Grit
- Motivation
- Interest in school
- ?
What Does HSGPA Say About a Student?

• What do the experts say about what HSGPA tells us? And what do they say about placement tests such as Compass and Accuplacer?
What Does HSGPA Say About a Student?

ETSU Reuschel’s “A Comparative Study of HS Academic Pathways” (2009):

“The high school grade point average measures both cognitive and noncognitive components (efforts, attendance, conformity, and motivation)” (pp. 10-11).
What Does HSGPA Say About a Student?

CCRC Scott-Clayton (2012) \(^{15}\) (never actually defines it):

“I examine whether other measures of preparedness, such as high school background, might be equally or even more predictive of college success” (p. 3).
What Does HSGPA Say About a Student?

Noble et al. (2003)\textsuperscript{17} (source found in Scott-Clayton) on placement tests:

“Placement tests are, in many instances, objective measures, and the degree of imprecision (i.e., measurement error) of their scores can be estimated fairly accurately. In addition, test scores can be made equivalent across alternate forms of a test to prevent problems with variability in meaning” (p. 302).
What Does HSGPA Say About a Student?

Noble et al. (2003) on HSGPA:

“Grades, in comparison, are subjective measures whose degree of imprecision is difficult to estimate. They seem efficient for placement decisions because they directly measure, at least in principle, the types of academic skills necessary for successful performance in college (Hills et al., 1990). Course quality and content vary among high schools, however, and grades can vary in meaning from school to school because of differing curricular frameworks and grade reporting procedures” (p. 302).
What Does HSGPA Say About a Student?

CCRC Belfield & Crosta (2012):

“In contrast to a single-value placement test score, high school transcripts may yield a wealth of information. Potentially, they can reveal not only cognitive competence but also student effort and college-level readiness” (p. 3).
What Does HSGPA Say About a Student?

“What is the source of difference between test scores and grades, and why are grades better predictors of college success?... The emerging consensus is that grades capture both cognitive and non-cognitive competencies, as teachers observe and value effort, cooperation, and other non-cognitive competencies alongside academic knowledge and skills” (p. 15).
What Does HSGPA Say About a Student?

“Ready to be Counted” (2015):  

“...while grades may be less reliable and valid measures of academic skill or aptitude than well-developed standardized tests, they are better predictors of college completion because they measure both the academic skills and the non-cognitive skills needed to succeed in colleges” (p. 15).
What Does HSGPA Say About a Student?

• Let’s now distinguish between the two terms being used, “cognitive” and “non-cognitive”
  • Cognitive:
    • Knowledge, placement test scores, vocabulary
  • Noncognitive (used to be called “affective”):
    • Attendance, handing in homework, motivation, grit
• The previous list we came up with can be subdivided into these two groups
What Does HSGPA Say About a Student?

- Now let’s compare placement tests to HSGPA in terms of what the studies and statistics show.
- Correlation coefficient \((r)\) and coefficient of determination \((r\text{-squared})\) are numbers used to show how datasets match up \((r)\) and how much of the variance can be explained by one dataset \((r\text{-squared})\).
- In simple terms, the higher the number, the better correlation and thus prediction power.
### Standardized Logistic Regression Coefficients

<table>
<thead>
<tr>
<th>Course type</th>
<th>Subgroup</th>
<th>Single-pred. models</th>
<th>Two-pred. model</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Compass test)</td>
<td></td>
<td>Compass</td>
<td>HSGPA</td>
</tr>
<tr>
<td>English</td>
<td>Overall</td>
<td>0.34</td>
<td>0.64</td>
</tr>
<tr>
<td></td>
<td>Traditional</td>
<td>0.36</td>
<td>0.76</td>
</tr>
<tr>
<td></td>
<td>Nontraditional</td>
<td>0.33</td>
<td>0.38</td>
</tr>
<tr>
<td>Composition 1</td>
<td>Overall</td>
<td>0.36</td>
<td>0.74</td>
</tr>
<tr>
<td>(Writing Skills)</td>
<td>Traditional</td>
<td>0.38</td>
<td>0.88</td>
</tr>
<tr>
<td></td>
<td>Nontraditional</td>
<td>0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>Speech/ Rhetoric</td>
<td>Overall</td>
<td>0.41</td>
<td>0.80</td>
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<tr>
<td>(Writing Skills)</td>
<td>Traditional</td>
<td>0.33</td>
<td>0.99</td>
</tr>
<tr>
<td></td>
<td>Nontraditional</td>
<td>0.47</td>
<td>0.43</td>
</tr>
<tr>
<td>American History</td>
<td>Overall</td>
<td>0.53</td>
<td>0.72</td>
</tr>
<tr>
<td>(Reading)</td>
<td>Traditional</td>
<td>0.54</td>
<td>0.92</td>
</tr>
<tr>
<td></td>
<td>Nontraditional</td>
<td>0.60</td>
<td>0.38</td>
</tr>
<tr>
<td>Other History</td>
<td>Overall</td>
<td>0.49</td>
<td>0.68</td>
</tr>
<tr>
<td>(Reading)</td>
<td>Traditional</td>
<td>0.48</td>
<td>0.82</td>
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<tr>
<td></td>
<td>Nontraditional</td>
<td>0.52</td>
<td>0.36</td>
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<tr>
<td>Psychology</td>
<td>Overall</td>
<td>0.60</td>
<td>0.65</td>
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<tr>
<td>(Reading)</td>
<td>Traditional</td>
<td>0.55</td>
<td>0.81</td>
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<tr>
<td></td>
<td>Nontraditional</td>
<td>0.64</td>
<td>0.40</td>
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<tr>
<td>Sociology</td>
<td>Overall</td>
<td>0.59</td>
<td>0.88</td>
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<tr>
<td>(Reading)</td>
<td>Traditional</td>
<td>0.64</td>
<td>0.94</td>
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<td></td>
<td>Nontraditional</td>
<td>0.70</td>
<td>0.63</td>
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<tr>
<td>Biology</td>
<td>Overall</td>
<td>0.60</td>
<td>0.38</td>
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<tr>
<td>(Reading)</td>
<td>Traditional</td>
<td>0.66</td>
<td>0.62</td>
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<tr>
<td></td>
<td>Nontraditional</td>
<td>0.67</td>
<td>0.15</td>
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<tr>
<td>Arithmetic Skills</td>
<td>Overall</td>
<td>0.42</td>
<td>0.68</td>
</tr>
<tr>
<td>(Pre-Algebra)</td>
<td>Traditional</td>
<td>0.66</td>
<td>0.62</td>
</tr>
<tr>
<td></td>
<td>Nontraditional</td>
<td>0.67</td>
<td>0.15</td>
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</table>
### Table 2
Relationship of College-Level Outcomes to Alternative Sets of Predictor Variables

<table>
<thead>
<tr>
<th>Sample restricted to students with high school background data</th>
<th>Placement Test Scores Only</th>
<th>High School GPA/Units Only</th>
<th>Placement Test Scores PLUS</th>
<th>Test Scores, HS GPA/Units, PLUS</th>
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</thead>
<tbody>
<tr>
<td>Panel A. R-Squared Statistics</td>
<td>0.121</td>
<td>0.102</td>
<td>0.165</td>
<td>0.183</td>
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<tr>
<td>(Proportion of Variation Explained)</td>
<td>0.069</td>
<td>0.077</td>
<td>0.109</td>
<td>0.121</td>
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<tr>
<td>Math</td>
<td>0.040</td>
<td>0.058</td>
<td>0.074</td>
<td>0.078</td>
</tr>
<tr>
<td>Earned B or higher in CL&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0.129</td>
<td>0.119</td>
<td>0.183</td>
<td>0.204</td>
</tr>
<tr>
<td>Earned C or higher in CL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passed CL (D- or higher)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades in first CL&lt;sup&gt;b&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>0.021</td>
<td>0.043</td>
<td>0.060</td>
<td>0.093</td>
</tr>
<tr>
<td>Earned B or higher in CL</td>
<td>0.008</td>
<td>0.038</td>
<td>0.045</td>
<td>0.059</td>
</tr>
<tr>
<td>Earned C or higher in CL</td>
<td>0.004</td>
<td>0.034</td>
<td>0.038</td>
<td>0.047</td>
</tr>
<tr>
<td>Passed CL (D- or higher)</td>
<td>0.017</td>
<td>0.055</td>
<td>0.069</td>
<td>0.098</td>
</tr>
<tr>
<td>Grades in first CL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 2-A.
**REMEDIAL COURSES:** Among 2003–04 first-time postsecondary students with transcripts, percentage who took a remedial course, and of those, average number of remedial courses taken and passed, by demographic, high school, and postsecondary characteristics: 2009—Continued

<table>
<thead>
<tr>
<th>Demographic, high school, and postsecondary characteristics</th>
<th>Percentage who took a remedial course</th>
<th>Average number of remedial courses taken</th>
<th>Average number of remedial courses passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT combined verbal and math score(^5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low quartile (400–700)</td>
<td>74.1</td>
<td>3.5</td>
<td>2.2</td>
</tr>
<tr>
<td>Middle quartiles (710–1020)</td>
<td>60.9</td>
<td>2.4</td>
<td>1.6</td>
</tr>
<tr>
<td>High quartile (1030–1600)</td>
<td>25.9</td>
<td>1.8</td>
<td>1.3</td>
</tr>
<tr>
<td>SAT math score(^5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low quartile (200–410)</td>
<td>72.9</td>
<td>3.0</td>
<td>1.9</td>
</tr>
<tr>
<td>Middle quartiles (420–570)</td>
<td>47.0</td>
<td>2.1</td>
<td>1.5</td>
</tr>
<tr>
<td>High quartile (580–800)</td>
<td>20.7</td>
<td>1.6</td>
<td>1.1</td>
</tr>
<tr>
<td>SAT verbal score(^5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low quartile (200–420)</td>
<td>68.9</td>
<td>3.0</td>
<td>1.9</td>
</tr>
<tr>
<td>Middle quartiles (430–570)</td>
<td>45.7</td>
<td>2.1</td>
<td>1.5</td>
</tr>
<tr>
<td>High quartile (580–800)</td>
<td>24.8</td>
<td>1.8</td>
<td>1.2</td>
</tr>
<tr>
<td>High school grade point average(^3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 2.50</td>
<td>61.7</td>
<td>2.9</td>
<td>1.8</td>
</tr>
<tr>
<td>2.50–2.99</td>
<td>62.3</td>
<td>2.8</td>
<td>1.8</td>
</tr>
<tr>
<td>3.00–3.49</td>
<td>54.2</td>
<td>2.6</td>
<td>1.7</td>
</tr>
<tr>
<td>3.50 or higher</td>
<td>30.9</td>
<td>2.0</td>
<td>1.4</td>
</tr>
</tbody>
</table>
What Does HSGPA Say About a Student?

• Overall correlations for both placement tests and HSGPA are similar
  \[(r^2: .01 = \text{small}, .09 = \text{medium}, .25 = \text{large})\]

• HSGPA has slightly higher prediction rates

• Boylan spoke with CCRC researchers and they describe r-squared values as 18% for Compass/Accuplacer and 24% for HSGPA

• Therefore, HSGPA predicts success slightly better
BENEFIT to Using HSGPA for Placement

• BENEFIT:
  • The primary benefit to using 3-4 year cumulative HSGPA for placement into or out of remedial courses is that it predicts student performance slightly better than placement tests alone.
  • This means, at first glance, using noncognitives and cognitive measures together helps us know better who will pass college-level courses and graduate, and who will not, before placing them into courses.
What Predicts HSGPA?

This raises interesting questions:

• What should we look for when placing students into remedial courses or college-level courses?
• Should we assess primarily content knowledge?
• Should we assess primarily noncognitives?
• How much of HSGPA is a noncognitive measure?
• If we use more noncognitives, how will that affect us?
Shift in Placement Philosophy

• When HSGPA is considered as primarily a noncognitive measure, the shift from knowledge-based placement assessments (Compass/Accuplacer) to a metric of years of performance and background (HSGPA) is a distinct change in philosophy for community colleges, especially for remedial course placement.
Conceptualizing Placement

DEV ED COURSES

COLLEGE-LEVEL COURSES

GRADUATION

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Conceptualizing Placement

ACT and Compass assess knowledge and place students at beginning of college-level or Dev Ed courses.

- DEV ED COURSES
- COLLEGE-LEVEL COURSES
- GRADUATION

Copyright A. Goudas 2016
ACT and Compass assess knowledge and place students at beginning of college-level or Dev Ed courses.

Researchers are working from university model with selective application process designed to predict and place only those who are going to be successful.
ACT and Compass assess knowledge and place students at beginning of college-level or Dev Ed courses.

Researchers are working from a university model with a selective application process designed to predict and place only those who are going to be successful. It is a NEW use of admissions data for community colleges to place students into Dev Ed or college-level based on prediction of “college success” rather than student knowledge, which was the original design to make sure students get proper placement.
What Predicts HSGPA?

• Let’s go further with the HSGPA/noncognitive research and investigate what predicts HSGPA

• Research strongly suggests that parental education and socioeconomic status (SES) predict both cognitive and noncognitive student abilities

• If you really wanted to predict college success, parental income and education level is probably the best predictor of college completion
Figure 1: Grade Point Average by Parents’ Highest Education Level

Parents’ Highest Education Level (Selected Categories)

- High school diploma or equivalent
- Associate’s degree
- Bachelor’s degree
- Master’s degree or equivalent
- Doctoral degree or equivalent

<table>
<thead>
<tr>
<th>Education Level</th>
<th>3.50 or higher</th>
<th>3.00 - 3.49</th>
<th>2.50 - 2.99</th>
<th>Lower than 2.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>High school diploma or equivalent</td>
<td>27</td>
<td>26</td>
<td>27</td>
<td>20</td>
</tr>
<tr>
<td>Associate’s degree</td>
<td>28</td>
<td>27</td>
<td>29</td>
<td>31</td>
</tr>
<tr>
<td>Bachelor’s degree</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>Master’s degree or equivalent</td>
<td>31</td>
<td>33</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>Doctoral degree or equivalent</td>
<td>33</td>
<td>33</td>
<td>29</td>
<td>19</td>
</tr>
</tbody>
</table>

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Association of American Colleges and Unis (2010)
Average HSGPA for all Students is 3.0 in 2009.
College Board (SAT) Data \((r = .95)\)
ACT College Readiness Benchmark Attainment by Annual Family Income Level 2014

Tracy Wilkinson

ACT College Readiness Benchmark Attainment by Annual Family Income Level

Copyright A. Goudas 2016
Pell Institute “Indicators of Higher Education Equity in the United States” (2015)
“Measure Twice” (2013)
Using HSGPA for Placement

• So how intertwined are noncognitives to life factors such as SES, parental income, school location, etc.?

• HSGPA may predict success in college because it assesses a great deal of lifelong factors; therefore, it is essentially a way to select for success.

• Community colleges are not as selective for placement/admissions as most universities are (75%)^6

• Here is a chart showing the impact of selectivity on graduation.
USDOE “The Condition of Education 2014”

Figure 3. Percentage of students seeking a bachelor’s degree at 4-year degree-granting institutions who completed a bachelor’s degree within 6 years, by institutional applicant acceptance rate: Starting cohort year 2006.

- Open admissions: 33%
- 90 percent or more accepted: 48%
- 75.0 to 89.9 percent accepted: 56%
- 50.0 to 74.9 percent accepted: 60%
- 25.0 to 49.9 percent accepted: 72%
- Less than 25.0 percent accepted: 86%
Unintended Consequences of Using HSGPA

• Again, open-access institutions do not generally engage in much selectivity

• The most selectivity community colleges employ is to allow students to use achievement tests to place into higher-level courses; goal is knowledge-based placement, yet even assessment scores still skew in favor of higher socioeconomic status

• Adding “or HSGPA” may make the SES disparity worse, especially if remediation is considered “ineffective”
Unintended Consequences of Using HSGPA


• However, she very recently published an op-ed in the *NYT* (March 26, 2016).

• Here is what she said on a related matter, using “grit” to grade schools.
“Attributes like self-control predict children’s success in school and beyond. Over the past few years, I’ve seen a groundswell of popular interest in character development...It seemed that the narrow focus on standardized achievement test scores from the years I taught in public schools was giving way to a broader, more enlightened perspective. These days, however, I worry I’ve contributed, inadvertently, to an idea I vigorously oppose: high-stakes character assessment.”
“Does character matter, and can character be developed? Science and experience unequivocally say yes. Can the practice of giving feedback to students on character be improved? Absolutely. Can scientists and educators work together to cultivate students’ character? Without question.

Should we turn measures of character intended for research and self-discovery into high-stakes metrics for accountability? In my view, no.”
Duckworth, “Don’t Grade Schools on Grit” (2016)

• After reading this, I decided to email Dr. Duckworth at her Duckworth Lab housed in the U of Penn
• I asked her whether we should also apply her stance to placement in community colleges
• A lab assistant emailed back right away:
  “...your assumption that the character measures should not be used in admissions decisions is correct.”
Unintended Consequences of Using HSGPA

• Aside from HSGPA exacerbating inequality by favoring higher SES, a second unintended consequence to the use of noncognitives is that we are using this data in ways that the researchers are cautioning against.

• That is why I went further and demonstrated that “predicting success” is rather easy to do once we find the right measures (SES, parental education level, vocabulary by age 3, etc.)
Unintended Consequences of Using HSGPA

• In fact, a metastudy shows that college attendance is the best predictor of college grades, better than any other measure (Crede et al., 201023)

• Does this mean we should take attendance the first semester for FTIACS and then route students into remedial courses in the second semester? Or only look at detailed HS attendance for college placement?
Unintended Consequences of Using HSGPA

• So is it fair to place students into remediation based on their predicted ability to pass and graduate rather than their knowledge of English and mathematics?

• Here are several other possible unintended consequences of employing HSGPA for placement in community colleges
Unintended Consequences of Using HSGPA

1. More White and Asian students will be placed into college-level courses; more Black and Hispanic students will be placed into remedial courses
Overall HSGPA for All Students is 3.0 in 2009.
FIGURE 30. Trend in average GPAs, by race/ethnicity: 1990–2009

- White
- Black
- Hispanic
- Asian/Pacific Islander

* Significantly different (p<.05) from 2009.

Unintended Consequences of Using HSGPA

CCRC Scott-Clayton & Stacey Research Overview (2015):  

“...in the urban system, using high school information alone would increase the rate at which Black students are assigned to English remediation and substantially decrease their representation in college English. One way to avoid differential impacts on subgroups would be to allow students to test out of remediation based on either test scores or high school achievement” (p. 3).
Predicted Racial/Ethnic Composition of Introductory College-Level Courses by Assessment Method (Urban Study)

### Math
- **COMPASS Test Scores**
  - White: 19%
  - Black: 24%
  - Hispanic: 22%
  - Asian: 23%
- **High School GPA/Units**
  - White: 19%
  - Black: 21%
  - Hispanic: 21%
  - Asian: 17%
  - Other/Unknown: 12%
- **Test Scores & High School GPA/Units**
  - White: 19%
  - Black: 21%
  - Hispanic: 26%
  - Asian: 21%
  - Other/Unknown: 12%

### English
- **COMPASS Test Scores**
  - White: 18%
  - Black: 31%
  - Hispanic: 30%
- **High School GPA/Units**
  - White: 18%
  - Black: 15%
  - Hispanic: 23%
  - Asian: 10%
  - Other/Unknown: 12%
- **Test Scores & High School GPA/Units**
  - White: 21%
  - Black: 20%
  - Hispanic: 32%
  - Asian: 16%
  - Other/Unknown: 12%
Unintended Consequences of Using HSGPA

2. More students overall will be placed into college-level courses, and there is no guarantee they will be successful there; in fact, research strongly suggests they will be less successful.

*Note: The reason why more students will be placed into college-level courses is because the cutoff is going to be lowered by institutions using an “or”*
We need to determine the level of your reading, writing and math skills in order to place you in the appropriate classes. We can measure this in several different ways, including previous college credit you've earned, SAT/PSAT or ACT scores, high school GPA or through an assessment tool called Accuplacer.

You can complete assessment in any of the following four ways:

**ACT, SAT, or PSAT Scores**

Have you already taken the ACT, SAT or PSAT? Generally scores of 460 or higher on each section of the SAT, 26 in writing, 25 in reading and 24.5 in math or higher on each section of the PSAT*, or 17 in English, 18 in reading, 18 in math or higher on each section of the ACT can be accepted for your assessment if they were completed within the last four years. Click here for more information on the scores you need to complete the assessment requirement. Send a copy of your ACT, SAT or PSAT scores to the address listed below. *PSAT scores based on tests taken 2015 and beyond. Older test scores may also be accepted. Click here for older PSAT score ranges.

**High School GPA 2.5+**

Generally, a high school cumulative GPA of 2.6 or higher on a 4.0 scale will meet the assessment requirement if this was your final GPA at the time of graduation and if you completed high school within the last four years. You must have graduated with a Core 40, Technical Honors, or Academic Honors diploma or equivalent. High school seniors who have not yet graduated can use the cumulative GPA after six high school semesters have been completed. Send a copy of your high school transcripts to the address listed below.

**Previous college courses or Associate degree**

Have you already earned college credits or an Associate degree at another college or university? If so, see below for information on where to submit your college transcripts. General education courses taken at another regionally accredited institution, with a grade of “C–” or higher, may be used to complete the assessment requirement. Send a copy of your transcripts to the address listed below. Please note, that if you would like to have your transcripts evaluated for transfer credit also, once you are admitted you will need to submit an official copy to your regional Registrar’s office for evaluation.

**Accuplacer assessment**

If you do not have previous college credit, an ACT, SAT or PSAT score, or a cumulative high school GPA that satisfies the assessment requirement, you will need to take the Accuplacer skills assessment. Your scores on the Accuplacer determine which writing, reading and math classes you’ll take first. You must meet certain scores in order to place into college-level classes. The Accuplacer is free, and after the initial assessment in reading, writing and math, you may retake two additional times per year free of charge to try and increase your score. Your score will be accepted up to four years after you take the assessment. To prepare for the Accuplacer assessment, please click here. To schedule an appointment to take the Accuplacer, scroll down and click on your campus below.
If Using ACT, Compass, or HSGPA, Many More Students Will Automatically Enter College-Level Courses

- **INCREASE OF 121 STUDENTS OUT OF 1546**
- **INCREASE OF 242 STUDENTS OUT OF 1546**

Students added to college-level placement with HSGPA 3.0 or higher: 8 to 16% increase.
IHE “When You’re Not Ready” (2015)

<table>
<thead>
<tr>
<th>Miami-Dade College</th>
<th>Developmental Education Enrollment</th>
<th>2012-13 to 2014-15</th>
<th>Math</th>
<th>Writing</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>-42%</td>
<td>-44%</td>
<td>-46%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>College-level Enrollment</th>
<th>2012-13 to 2014-15</th>
<th>Math</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>+30%</td>
<td>+10%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Pass Rates</th>
<th></th>
<th>Math</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2012-13</td>
<td></td>
<td>55.7%</td>
<td>74%</td>
</tr>
<tr>
<td></td>
<td>2014-15</td>
<td></td>
<td>46.8%</td>
<td>70.3%</td>
</tr>
</tbody>
</table>
3. When students are placed into remediation using a metric (HSGPA) that combines cognitive and noncognitive aspects, that means we must remediate for both; while many remedial courses do try to address noncognitive factors, many do not; what should we do instead? Actual “Developmental Education” addresses this problem
4. Due to some colleges’ admissions processes, some students who will qualify for college-level courses will not end up taking those courses because their Accuplacer printout will allow them to register before their HSGPA placement information is submitted; we should guarantee students will turn in HSGPA, test, and then wait for placement decision.
Unintended Consequences of Using HSGPA

5. Additional staffing and time will be needed for receiving and entering official HSGPA transcript information, especially if HSGPA is required; then additional staffing and time will be needed for making students aware of a different placement than their Accuplacer score if they enroll out of order.
Unintended Consequences of Using HSGPA

6. Research shows that 10% of all FTIACS do not have HSGPA, another 20-30% of our FTIACS are non-traditional, and another 10-20% may not have access to or cannot get HSGPA (and as shown before, HSGPA only works well with ages 18-19)\textsuperscript{13}

• Only \(\sim 50-60\)\% of community college students would actually be able to submit their HSGPA
Unintended Consequences of Using HSGPA

• The two CCRC foundational studies which have been used to promote the current trend in using HSGPA (Scott-Clayton, 2012; Belfield & Crosta, 2012) highlight the fact that 50 to 70% of their samples did not have any HSGPA to provide.

• Therefore, who exactly would benefit from HSGPA placement?

• Will this simply benefit higher SES students?
USDOE NAEP Average HSGPA Data (2011)

**FIGURE 30.** Trend in average GPAs, by race/ethnicity: 1990–2009

- **White**
- **Black**
- **Hispanic**
- **Asian/Pacific Islander**

* Significantly different (*p* < .05) from 2009.

Unintended Consequences of Using HSGPA

7. We cannot guarantee the results from the CCRC research will be replicated; their results are based on “mixed measures” of HSGPA and tests (and other measures) combined; their predictions on HSGPA are theoretical and based only on students who placed into college-level courses
Predicted Rates of Severe Placement Errors and College-Level Course Success by Assessment Method (Statewide Study)\textsuperscript{7}

**Math**
- Severe Error Rate: 34\%
- College-Level Course Success Rate: 76\%
- COMPASS Test Scores: 89\%
- High School GPA/Units: 88\%
- Test & High School GPA/Units: 88\%

**English**
- Severe Error Rate: 26\%
- College-Level Course Success Rate: 73\%
- COMPASS Test Scores: 82\%
- High School GPA/Units: 82\%
- Test & High School GPA/Units: 82\%
“Multiple Measures” Not a New Idea

Noble et al. (2003)\textsuperscript{17} (cited in Scott-Clayton, 2012):

“Using multiple measures to determine students' preparedness for college significantly increases placement accuracy (ACT, 1997; Gordon, 1999; Roueche & Roueche, 1999). For example, test scores and high school grades may be used jointly to identify students who are ready for college-level work” (p. 302).
Even “Mixed Measure” Shows Limited Results

• CCRC research finding using HSGPA and amount of HS courses taken (mixed measure):

“Our calculations suggest that out of 100 students tested, 4 to 8 fewer students would be severely misplaced, representing up to a 30 percent reduction in severe errors compared with test-based placements” (Belfield, 2014, p. 2).11
Using HSGPA for Placement: How to Employ an Actual Mixed Measure

• CCRC research and other research (ACT\textsuperscript{13}) recommend using an actual mixed measure
• Most of the findings are based on mixed measures
• This means that HSGPA would be used together with Accuplacer to make a more valid placement
• Unfortunately, CCRC has not provided a practical way to assess students with an actual “mixed measure”
• There are two practical ways to do this
Using HSGPA for Placement: 
How to Employ an Actual Mixed Measure

• First, after SAT cutoff, all students take the Accuplacer
• Then Accuplacer allows students to enter their HSGPA and then we can set it to “weight” their Accuplacer score with their HSGPA
• Problem with this is that we would need their transcripts before they take Accuplacer (or verify)
• Another problem with this is that Accuplacer score will go down due to lower HSGPA; negative impact on student
Using HSGPA for Placement: How to Employ an Actual Mixed Measure

• Second, after SAT cutoff, all students take the Accuplacer:

• Then students required to meet with counselor or adviser after Accuplacer, and if students have HSGPA, then that is used for moving students up when they are in any Decision Zones
Mixed Measure Including HSGPA

Conceptualizing Decision Zone Placement

- HSGPA 3.0+ MOVES STUDENT UP
  - Decision Zone
  - DEV ED LEVEL 3
  - Decision Zone
  - DEV ED LEVEL 2
  - Decision Zone
  - DEV ED LEVEL 1

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Using HSGPA for Placement: How to Employ an Actual Mixed Measure

- *Decision Zone* model will include HSGPA in placement.
- CCRC research supports “mixed measures” best.
- Aligns well with Guided Pathways.
- Moves students up only (whereas Accuplacer mixed measure algorithm most likely moves students down based on low HSGPA).
- Will incorporate a lower proportion of noncognitive measures, which includes income, SES, etc.
Using HSGPA for Placement: How to Employ an Actual Mixed Measure

• *Decision Zone* placement model can be enhanced by waivers from Math and English Divisions

• In other words, students can still appeal to Math and English Divisions and take their exams to move up

• Students should be encouraged to retest the Accuplacer for free up to three times a year (*The Advance Program*: A highly successful program reducing misplacement by 25% at Delta)

• We can prepare them for Accuplacer as well before they take it the first time (*Placement Prep Program*)
Using HSGPA for Placement

• If HSGPA is used as a single measure in addition to ACT/SAT scores, what should that cutoff be?

• Usually 50th percentile is used as cutoff; that means 3.0 or higher HSGPA

• Data from CCRC also suggest 3.0 and higher is proper (Scott-Clayton & Stacey, 2015, p. 5)11
Overall HSGPA for All Students is 3.0 in 2009

* Significantly different (p<.05) from 2009.

NOTE: GPA gaps are calculated based on differences between unrounded GPAs. Male-female GPA gaps were found to be statistically significant in all years.

What is Truly Best for Placement?

• Many “multiple measures” are best for placement:
  • ACT/SAT
  • Compass/Accuplacer (free retests encouraged)
  • Counseling/Advising session (right after test!)
  • HSGPA has a role (I argue for more limited role)
  • Short essay assessment for English/math
• This requires an investment of money and time!
• However, it will lead to higher student success
Questions?

Thank you for all you do for students!

(References below)

Please contact me for questions, concerns, suggestions: alexandrosgoudas@delta.edu

Feedback is always welcome!
References


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