

# Chabot College

## Math Assessment Recommendations: Spring 2017

### Preliminary Good News for the Multiple Measures Pilot

The experiment to use multiple measures to assess student readiness in math showed early success. Preliminary results indicated that using recent high school transcripts along with the math assessment test increased a student's likelihood of being placed in a higher level math course. Four of our five local high school districts provided the transcripts, which were used for placement of their new students in Spring 17.

### Students with both HS transcripts and Accuplacer recs placed higher

A total of 788 students took the Accuplacer Math assessment test. Of these, 55 were placed using the highest of either the test or a formula that used their HS GPA, last math class level and grade in that math class. The other 733 were given math course recommendations based only on the Accuplacer test.

Students who had the benefit of both the test and their HS transcripts were more likely to place into College Math (35% vs 19%) and much less likely to place into Basic/Pre-Algebra (7% vs 35%) than those placed only with the Accuplacer. The Accuplacer placement rates have not changed for years.

#### Students with HS Transcripts: Final Recommendations (Highest of HS Transcript or Accuplacer)

	<i>Num</i>	<i>Pct.</i>
1. College-level Math	19	35%
2. Math 55/55A/54/57 Inter Alg	14	25%
3. Math 53/53A/65/65A Elem A	18	33%
4. Math 104 Pre-Algebra	3	5%
5. Math 103 Basic Math	1	2%
Total	55	100%

#### Students without Transcripts: Final Recommendations (Accuplacer only)

	<i>Num</i>	<i>Pct.</i>
1. College-level Math	141	19%
2. Math 55/55A/54/57 Inte	116	16%
3. Math 53/53A/65/65A E	216	29%
4. Math 104 Pre-Algebra	193	26%
5. Math 103 Basic Math	67	9%
Total	733	100%

### HS transcripts and Accuplacer produced different recommendations

For students who had recommendations based on both their HS transcript and the Accuplacer, the two sources of assessment produced very different math recommendations. Although each method placed 22 percent into College Math, 35 percent placed into College Math when the higher of the two was used. The HS transcript formula benefits students with high HS GPAs by placing them closer to their high school math completion, correcting for low placement by Accuplacer due to low test preparation.

#### Students with HS Transcripts: High School Transcript Recommendations

	<i>Num</i>	<i>Pct.</i>
1. College-level Math	12	22%
2. Math 55/55A/54/57 Inter Alg	2	4%
3. Math 53/53A/65/65A Elem A	17	31%
4. Math 104 Pre-Algebra	4	7%
5. Math 103 Basic Math	20	36%
Total	55	100%

#### Students with HS Transcripts: Accuplacer Recommendations

	<i>Num</i>	<i>Pct.</i>
1. College-level Math	12	22%
2. Math 55/55A/54/57 Inte	10	18%
3. Math 53/53A/65/65A E	20	36%
4. Math 104 Pre-Algebra	8	15%
5. Math 103 Basic Math	5	9%
Total	55	100%

**Next steps:** This pilot developed methods to process the transcripts and tested their value in assessment, but this was a small sample of new students. The real test will be Fall 2017, when more local grads enter Chabot.