Success Rates among Students whose First Community College Math Course was Statistics with Breakouts for those with < 2.3 HS GPA

The analysis below is a response to an inquiry from the AB 705 work group regarding the success rates of community college students whose first math class was a transferrable statistics class. We pay special attention to students with an 11th grade high school GPA less than 2.3, which is the lowest preforming node in the MMAP Statistics decision tree. The success rate of all students who enroll in Statistics as their first math course is 68.6% (N=14,334), while the success rate of students with an 11th grade high school GPA less than 2.3 is 39.8% (n=1,485).

As requested, this analysis presents a further disaggregation of those students with a high school GPA less than 2.3, as follows:

1. 11th HS GPA < 2.3 and completed Pre-Calculus with a C or better
2. 11th HS GPA < 2.3 and completed Algebra II (but not higher) with a C or better
3. 11th HS GPA < 2.3 and completed Algebra I (but not higher) with a C or better
4. 11th HS GPA < 2.3 and has not completed Algebra I with a C or better

Figure 1. Success Rates of Groups of Students in Transfer-Level Statistics
Table 1. Success Rates of Groups of Students in Transfer-Level Statistics

All Statistics Students
68.6% pass rate
14,334 students

11th grade GPA < 2.3
39.8% pass rate
1,485 students
10% of students

11th grade GPA < 2.3 and C or better in PreCalc
50.8% pass rate
128 students
9% of students

11th grade GPA < 2.3 and C or better in Algebra II
36.1% pass rate
759 students
51% of students

11th grade GPA < 2.3 and C or better in Algebra I
44.2% pass rate
251 students
17% of students

11th grade GPA < 2.3 and did not complete Algebra I with a C or better
38.7% pass rate
323 students
22% of students