

Student Success Draft: Advisor guidance for START incoming freshmen and placement in chemistry classes.

The chemistry department has spent considerable time analyzing the DFW rates for students in Fall CH 231 during 2015 and 2016. This analysis revealed that final grades in CH 231 show a strong relationship between incoming math test scores (SATM and ACTM) and DFW rates. Students with no SAT or ACT scores show a 40% DFW rate (more than twice the rate of the class as a whole). Below a score of 60, OSU's ALEKS math placement exam has no predictive value for chemistry DFW rates. The Chemistry Department Student Success Committee recommends the following advising criteria for placement into CH 231 and CH 261 (in order):

1. **If a student has a SATM score it should be >480.** Students with a SATM score of 480 and lower have a ***greater than 50% DFW rate in Fall CH231***. These students should increase their math proficiency (completing MTH111 and/or MTH112) before attempting CH231.

OR

2. **If a student has no SATM score, their ACTM score should be >19.** Students with an ACTM score of 19 and lower have a ***greater than 50% DFW rate in Fall CH231***. These students should increase their math proficiency (completing MTH111 and/or MTH112) before attempting CH231.

OR

3. **If a student has no SATM or ACTM score they should have an ALEKS math placement score of at least 60.** Student with no SATM or ACTM scores DFW at a rate of 40% (twice the class average). These students should increase their math proficiency (completing MTH111 and/or MTH112) before attempting CH231.