

Long Beach Placement Criteria

Unlike most placement models that use a specific threshold for criteria, such as high school GPA or course grades, Long Beach City College (LBCC) has used a formula for placement based on a weighted average of several criteria. In this model, the threshold was set so that if the student's chances of passing the transfer level course were higher than the traditional pass rate for the course, the student would be placed in a transfer level course. *See the formulas for math and English below.*

Predicting Pass Rate in ENGL1: = -5.192 + .942*(HSGPA) + .005*(ELA CST) + .373*(Grade Points in last HS English Class) + .013*(Total Semesters of AG coursework in HS) + .455*(Dummy Variable Flagging whether or not they took accelerated English their Senior Year)

Predicting Pass Rate of Transfer Math: = -4.30 + .938(HSGPA) + .006*(MA CST) + .224*(Grade points in last HS Math Class) + 2.322 (If last math was Calculus) OR +.644 (if last math class was trigonometry) OR + -.844 (if last math class was geometry) OR + -1.299 (if last math class was algebra 1)

These formulas are plugged into the Logit Link Function to produce a probability. Using this model, LBCC was able increase access to college level English from about 15% to about 60% and to college level math from about 10% to about 30%. Yet, there have been no changes in transfer course success rates and large gains in student's course progression and completion