Calculating the English Placement Index (EPI) and the Mathematics Placement Index (MPI)

[After the formulas for these indices were developed, the Compass placement tests (Compass scores are used in some of the formulas) were discontinued and were replaced by Accuplacer placement tests. For purposes of calculating indices, Accuplacer test scores must be converted to Compass test scores.]

[Similarly, the traditional SAT has been replaced by the "new" SAT. For purposes of calculating indices, "new" SAT scores (Reading Test, Mathematics Test) must be converted to "old" SAT (Verbal/Critical Reading, Mathematics scores.]

A Mathematics Placement Index (MPI) and an English Placement Index (EPI) will be calculated based on High School Grade Point Average (HSGPA), SAT or ACT and, when indicated, the COMPASS placement test or other approved placement test.

Indices will be composed of:

1. HSGPA and SAT/ACT - when both are available
2. HSGPA and COMPASS - when SAT/ACT are not available
3. SAT/ACT and COMPASS - when HSGPA is not available
4. COMPASS - when neither HSGPA nor SAT/ACT is available

For some students placement test scores add some additional information over that contained in HSGPA and SAT/ACT; those students will be required to take the appropriate placement tests. The placement test scores will be combined with the HSGPA and SAT/ACT and the resultant EPI or MPI will be used to determine students' Learning Support or collegiate placement.

When placement testing is required, the Accuplacer Elementary Algebra test will be used for math placement, with the Accuplacer test score being converted to a Compass Algebra test score for use in the formulas. The Accuplacer Reading Comprehension and Accuplacer WritePlacer tests will be used for English placement, with scores on these tests being converted to Compass Reading and Compass eWrite test scores for use in the formulas.

EPIs and MPIs may be calculated as listed below.

For the purposes of calculating placement indices, it is recommended that scores be no older than the maximums listed below. Institutions have the option to accept older scores and HSGPA.

Measure or Score	Recommended Maximum "Age"
SAT/ACT	7 years from date of administration
HSGPA	5 years from date of graduation
COMPASS	1 year from date of administration

There are multiple was to calculate EPI and MPI depending on the information available about a student.

For institutions that require SAT or ACT for admission:

Student applies with:	EPI	MPI
SAT and HSGPA (sh)	$EPIsh = (1603 * HSGPA) + SATV$	$MPIsh = (291 * HSGPA) + SATM$
with COMPASS added (shc)**	$EPIshc = EPIsh + (.08 * (EPIc - EPIsh))$	$MPIshc = MPIsh + (.25 * (MPIc - MPIsh))$
SAT only (must take COMPASS)		
with COMPASS added (sc)	$EPIsc = (4.6 * SATV) + (27.5 * (COMPASSR + eWrite))$	$MPIsc = (1.7 * SATM) + (13.3 * COMPASSM)$
ACT and HSGPA (ah)	$EPIah = (1553 * HSGPA) + (34 * ACTE)$	$MPIah = (298 * HSGPA) + (25 * ACTM)$
with Compass added (ahc)**	$EPIahc = EPIah + (.08 * (EPIc - EPIah))$	$MPIahc = MPIah + (.25 * (MPIc - MPIah))$
ACT only (must take COMPASS)		
with COMPASS added (ac)	$EPIac = (122 * ACTE) + (26.3 * (COMPASSR + eWrite))$	$MPIac = (57 * ACTM) + (5.4 * COMPASSM)$
**Calculating EPI or MPI based on Compass-only for use in formulas marked with ** (c)	$EPIc = 51.6 * (COMPASSR + eWrite)$	$MPIc = (10 * COMPASSM) + 795$

For institutions that do not require SAT or ACT for admission:

	EPI	MPI
HSGPA with Compass added (hc)	EPIhc = (794 * HSGPA) + (23.6 * (COMPASSR + eWrite))	MPIhc = (323 * HSGPA) + (6 * COMPASSM)
No info Must take Compass (c)	EPIc = 51.6 * (COMPASSR + eWrite)	MPIc = (10 * COMPASSM) + 795

Students with EPIs and MPIs equal to or greater than the minimum collegiate placement index scores listed below will be placed directly into the appropriate gateway college course(s). Note that because a higher level of preparation is required for success in Math 1111, a higher MPI will be required for direct placement into that course.