

New Mt. SAC Placement System

The Mt. SAC Math and English Departments approved the following placement protocols regarding the use of United States high school performance data as multiple measures for placing Mt. SAC students into Mt. SAC math and English courses.

- 1. All new students taking courses Summer 2018 will be placed using this proposed placement system.**
- 2. For math, students with either an unweighted, cumulative high school 11th-grade GPA of 2.0 or higher, or an unweighted, cumulative high school 12th-grade GPA of 2.1 or higher would not be required to take a placement test.**
- 3. For math, students with high school performance data will be placed into math courses based on their unweighted, cumulative high school GPA (either 11th or 12th), their highest math course completed, the grade received in their highest math course, and any math course they are currently enrolled in. See attached decision rules.**
- 4. For English, students who have completed three years of regular grade-level English courses would not be required to take a placement test.**
- 5. For English, students with high school performance data will be placed into English courses based on their unweighted, cumulative high school GPA (either 11th or 12th, depending on whether the student has already completed 12th grade at the time of applying to Mt. SAC), and the grade received in their 12th grade English course. See attached placement system for writing classes.**
- 6. A disjunctive multiple measures model will be used. Students with high school performance data who opt to take a placement test will be notified of the higher of the two placement results.**
- 7. Self-reported high school performance data will be used.**
- 8. High school performance data will not be required to be recent.**
- 9. Students placing into transfer-level courses will be strongly advised to seek counseling and to consult department websites about which math and English course they should take.**
- 10. Prerequisite statements in the schedule of classes and catalog will be updated.**
- 11. An assessment questionnaire will be created to accommodate this new placement system and to replace the Student Success Inventory.**
- 12. Research will be done to determine if the new placement system is effective.**

New placement system for writing classes at Mt. SAC

Note: These measures will apply for students who have at least three years at a U.S. high school with three years of regular grade-level* English or higher. Students who do not have three years of regular English classes will be placed by the AWE and by other multiple measures.

*non-ESL courses

Cumulative High School GPA	OR	GPA AND Grade in 12th Grade English	OR	Placement Test	=	Eligibility/Placement
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≥ 2.6	OR	2.40 – 2.59 AND B or higher in regular 12 th grade English	OR	English 1A on English placement test	→	English 1A OR Engl 1A/66 Co- Requisite
2.40 – 2.59	OR	2.20 – 2.39 AND B or higher in regular 12 th grade English	OR		→	Engl 1A/66 Co- Requisite
2.20 – 2.39	OR	2.00 – 2.19 AND B or higher in regular 12 th grade English	OR	English 68 on English placement test	→	English 68 OR English 90
1.80 – 2.19	OR	1.70 – 1.79 AND B or higher in regular 12 th grade English	OR	English 67 on English placement test	→	English 67 OR English 90
≤ 1.79	OR		OR	Lern 81 on English placement test	→	Lern 81

(Evelyn H-E)

FAQ'S on Placement Protocols into Composition Classes for Non-Native Speakers

Note: NNES is used here for non-native English speakers.

1. Will all NNES be required to take a placement test?

No. NNES (and all other students) who have three years of regular English classes in U.S. high schools will be placed by their GPAs.

2. What happens for those NNES who have fewer than three years of regular English classes in U.S. high schools?

All of these students will be able to take and may want to take the AWE, the Assessment of Written English, a 45-minute essay writing sample, to get a placement based on their writing ability; some will be able to place with their high school ESL coursework. (Discussions are in progress for this latter option.)

3. Will all NNES who take the AWE place into AmLa (American Language) classes?

No. All students who take the AWE will have their writing assessed by a team of trained readers using a rubric. This rubric will allow placement into English, AmLa (credit), ESL (non-credit), and LERN classes.

4. Will multiple measures be used for students (including NNES) taking the AWE?

Yes. There will be a placement questionnaire that will be used in conjunction with the AWE; this questionnaire will serve as a multiple measure and may shift a student's placement upward.

5. Why are NNES who attended U.S. high schools being placed using these protocols?

There are several reasons for this system, which we believe offers these students the optimal chances for success:

- a. State Law AB705, which goes into effect in January 2018, has very specific language regarding NNES, saying, "Instruction in English as a second language (ESL) is distinct from remediation in English. Students enrolled in ESL credit coursework are foreign language learners who require additional language training in English, require support to successfully complete degree and transfer requirements in English, or require both of the above."*
- b. Researchers John Hetts and Terrence Willett, who are providing data-based leadership throughout the state, concur that the current GPA placement data does not provide clear guidance for accurate placement of NNES. John Hetts comments, "Our typical recommendation to colleges is to continue to use the same method as currently exists in the colleges to determine whether or not someone is assessing into ESL or non-ESL English/Reading at your college."*
- c. Here at Mt. SAC, the English 1A success rates (and the throughput) for students who come through the AmLa program, particularly coming in at the AmLa 42 or AmLa 43 levels, are higher than the success rates for the general population.*

For all of these reasons—the law, the data provided by research from across the state, and our own success data—this system is one that will give our NNES the most chance for success.

Mt. SAC Mathematics Multiple Measures Model - Version 11/3/17

(for placement using student high school performance data)

Mt. SAC Math Course	Direct Matriculants (Current 12 th Graders)		Non-Direct Matriculants (High School Graduates)	
	Minimum 11th- grade GPA ¹	Highest math course passed with C or better ¹	Minimum 12th- grade GPA ¹	Highest math course passed with C or better ¹
180 (Calculus I)	3.6 3.2	Trigonometry Precalculus	3.5 3.1	Trigonometry Enrolled in Calculus course
160 (Precalculus)	3.4 2.6	Trigonometry ³ Enrolled in Calculus course	3.3 3.0	Trigonometry ³ Calculus
150 and 140 ² (Trigonometry and Business Calculus)	3.4 3.0 3.0	Algebra II Precalculus Algebra II B or better	3.3 2.8	Algebra II Precalculus
130 and 120 ² (College Alg and Finite Math)	3.2 2.9	Algebra II Precalculus	3.2 3.0	Algebra II Statistics
100 (Survey of College Math)	3.2	Algebra II ⁴	3.2 2.9	Algebra II ⁴ Statistics
110/110H (Statistics)	3.0 2.3	Algebra II ⁴ Precalculus	3.0 2.6	Algebra II ⁴ Precalculus
71/71A/71X and 61 ² (Intermediate Alg and Geometry)	2.8	Algebra I	2.9 2.5	Algebra I Precalculus
70S ² and 51/51A (Integrated Int Alg and Elementary Alg)	2.4	No requirement	2.5	No requirement
50 (Pre-Algebra)	2.0	No requirement	2.1	No requirement
LERN 49/48 ² (Math Skills Review)	Take Level 1 Placement Test results to determine if place into LERN 49 vs. LERN 48. ⁵			

- 1: Based on 11th/12th grade GPA minimums and highest math course taken for statewide MMAP (Phase II, Feb 2017), unless otherwise noted.
- 2: No MMAP ruleset exists for this course.
- 3: With MMAP, only Algebra II is required to place into Precalculus (our Math 160).
- 4: With MMAP, only Algebra I is required to place into Statistics (our Math 110) and General Education Math (our Math 100). Only a 3.2 is required instead of a 3.3 for Math 100.
- 5: Student would have the option to take the Level 2, 3, or 4 placement tests.

Orange highlighting points to deviations from the statewide MMAP model.

Note: This version was approved by the Math Department on 11/3/17.

You are eligible to take Math 71 (Intermediate Algebra).

Please read the following important message, which explains:

- What you should be familiar with before taking Math 71
- What you will learn in Math 71
- Options if you think you should have been placed higher or lower

Samples of what you should be familiar with before taking Math 71

1. Solve the system of equations: $3x + y = 9$ and $x = y + 11$

Show Solutions

2. Simplify: $(2x - 5)(3x + 2) - (x^2 - 3x - 8)$

Show Solutions

3. Solve: $3x^2 - 2x - 8 = 0$

Show Solutions

4. If the sum of three consecutive odd integers is 99, what is the largest of these integers?

Show Solutions

Samples of what you will learn in Math 71

1. Solve: $2e^{x-4} + 7 = 19$

Show Solutions

2. Graph: $(x - 2)^2 + 4(y + 5)^2 = 36$

Show Solutions

3. Solve and write your answer using interval notation: $|2x - 1| > 3$

Show Solutions

If you think you should have been placed lower

- If you don't think you are prepared for Math 71 and think you should have been placed lower, we encourage you to consider taking a corequisite course—Math 7—which provides additional support for Math 71.
- You are also eligible to take any course lower than Math 71. If you would like more information about the prerequisite course, [Math 51 \(Elementary Algebra\)](#), please click on the [Math 51 information page](#).

*Note: Make all "[Math 130](#)," "[Math 51](#)," etc. linkable.

If you think you should have been placed higher

- If you think you should be placed higher and have not yet taken the placement test, please contact the [Assessment Center](#) to make an appointment.
- You are also eligible to enroll in [Math 130 \(College Algebra\)](#), but only if you also take its corequisite course, Math 13.

These matrices are based on the placement rules set by the Math Department as of 11/3/2017. Placement rules require high school unweighted cumulative GPA and the highest high school math course completed with grade (mostly with a grade of "C" or better.) Conjectively, these two factors will generate a highest Mt.SAC math course placement. The highest course placement indicates eligibility to enroll in that course and any lower level courses in the sequence. For example, a placement of "MATH160" indicates the student is eligible to enroll in MATH160, MATH150, MATH140, MATH130, MATH120, MATH100, MATH110(H), MATH7171A71X61, MATH51, and MATH50.

Math Multiple Measures Placement Model-DIRECT (Completed 11th Grade from a US High School, no 12th grade data)												
HSGPA RANG	NONE	ALG1	INTG_M1	INTG_M2	GEO	ALG2	INTG_M3	STAT	INTG_M4	TRIG	PRECAL	CAL
3.60-4.00	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	180	180	180
3.50-3.59	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	160	180	180
3.40-3.49	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	160	180	180
3.30-3.39	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	180	180
3.20-3.29	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	120/130, 140/150 (B)	180	180
3.10-3.19	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	140/150	160(ert)
3.00-3.09	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	110/110H, 140/150 (B)	140/150	160(ert)
2.90-2.99	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	120/130	160(ert)
2.80-2.89	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H	160(ert)
2.60-2.79	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	110/110H	160(ert)
2.50-2.59	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	110/110H	110/110H
2.40-2.49	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	110/110H	110/110H
2.30-2.39	50	50	50	50	50	50	50	50	50	50	110/110H	110/110H
2.10-2.29	50	50	50	50	50	50	50	50	50	50	50	50
2.00-2.09	50	50	50	50	50	50	50	50	50	50	50	50
<2.0												

HS Math Course	Sequence
Prealgebra	1
Algebra 1	2
Integrated Math 1	3
Integrated Math 2	4
Geometry	5
Algebra 2	6
Integrated Math 3	7
Statistics	8
Integrated Math 4	9
Trigonometry	10
Precalculus	11
Calculus	12

MTSAC MATH	Sequence
MATH50	1
MATH51/51A70S	2
MATH7171A71X61	3
MATH100(H)	4
MATH100	5
MATH120/130	6
MATH140/150	7
MATH160	8
MATH180	9

GRADE	Sequence
A	1
A-	2
B+	3
B	4
B-	5
C+	6
C	7
C-	8
P	9
D	10
F	11
NP	12
null	13

Math Multiple Measures Placement Model-NONDIRECT (Complete 12th Grade from a US High School)												
HSGPA RANG	NONE	ALG1	INTG_M1	INTG_M2	GEO	ALG2	INTG_M3	STAT	INTG_M4	TRIG	PRECAL	CAL
3.60-4.00	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	180	180	180
3.50-3.59	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	180	180	180
3.40-3.49	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	160	180	180(ert)
3.30-3.39	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	140/150	140/150	140/150	140/150	160	160	180(ert)
3.20-3.29	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	120/130	120/130	120/130	120/130	120/130	140/150	180(ert)
3.10-3.19	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H	110/110H	120/130	120/130	120/130	140/150	180(ert)
3.00-3.09	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H	110/110H	120/130	120/130	120/130	140/150	160
2.90-2.99	5151A70S 7171A71X61	7171A71X61	7171A71X61	7171A71X61	7171A71X61	110/110H	110/110H	120/130	120/130	120/130	140/150	140/150
2.80-2.89	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	140/150	140/150
2.60-2.79	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	110/110H	110/110H
2.50-2.59	5151A70S 7171A71X61	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	5151A70S	7171A71X61	7171A71X61
2.40-2.49	50	50	50	50	50	50	50	50	50	50	50	50
2.30-2.39	50	50	50	50	50	50	50	50	50	50	50	50
2.10-2.29	50	50	50	50	50	50	50	50	50	50	50	50
2.00-2.09												
<2.0												