

LOS ANGELES MISSION COLLEGE APMS MATH PLACEMENT CRITERIA (314 -)

NOTE: For placement, Multiple Measure Points (MMP) are added to Math test scores in the following manner, based on responses to the Educational Planning Questionnaire (Background Questions):

| | | | | | |
|------------|----------|-----------------------|-----|-------------------------|---------------------------|
| ENL | Criteria | 5abc&6def or 5de&6abc | 10a | 11de&12ab or 11fg&12abc | TOTAL (Based on ENL local |
| | Max MMP | +1 | +1 | +1 | +3 background questions.) |
| ESL | Criteria | 5abc&6def or 5de&6abc | 10a | 11de&12ab or 11fg&12abc | TOTAL (Based on ESL local |
| | Max MMP | +1 | +1 | +1 | +3 background questions.) |

Scores in the student record are not changed.

| MDTP PRECALCULUS DIAGNOSTIC TEST (PC40C86) TP: 5 5 6 5 5 4 5 5 (PC Topics: EXPR FNCT LINR LOGX POLY RATL TRIG WORD) ML: 4 4 4 4 4 3 4 4 | | | | |
|---|-----------------|-------------------------|----------------|---|
| Placement Rule (Begin at top and fall through until condition is met.) | Placement Level | Courses Unblocked | Placement Name | Placement Message |
| PCS≥31 & PCSS CMP 2 3 4 3 3 2 4 2 | 1 | MATH 265 | Math 265 | You may enroll in Math 265 |
| PCS≥22 & PCSS CMP 2 2 4 3 3 3 3 1 | 2 | MATH 260 | Math 260 | You may enroll in Math 260 |
| PCS≥19 & PCSS CMP 2 2 4 2 3 2 0 1 | 3 | MATH 240 | Math 240 | You may enroll in Math 240. (See message below for Math 240) |
| PCS≥14 & PCSS CMP 1 1 3 2 2 1 0 1 | 4 | MATH 245, 227, 238, 215 | Math 227/245 | You may enroll in Math 227, 245, 238, or 215. (See message below for Math 215) |
| PCS>0 | 14 | | IA Ref Fr PC | You must take the Intermediate Algebra Test to determine your placement. |

| MDTP INTERMEDIATE ALGEBRA DIAGNOSTIC TEST (IA45C91) TP: 6 9 6 6 5 7 6 (IA Topics: ELEM EXPR GRPH LINR LOGF QUAD RATL) ML: 4 6 4 4 4 5 4 | | | | |
|---|-----------------|------------------------|----------------|---|
| Placement Rule (Begin at top and fall through until condition is met.) | Placement Level | Courses Unblocked | Placement Name | Placement Message |
| IAS≥38 & IASS CMP 4 6 4 4 3 5 4 | 11 | | PC Ref Fr IA | You must take the Precalculus Test to determine your placement. |
| IAS≥27 & IASS CMP 3 3 3 3 1 3 3 | 4 | MATH 245, 227 238, 215 | Math 227/245 | You may enroll in Math 227, 245, 238, or 215. (See message below for Math 215) |
| IAS≥22 & IASS CMP 2 3 2 3 0 2 3 | 5 | MATH 123C | Math 123C | You may enroll in Math 123C. |
| IAS≥16 & IASS CMP 2 2 2 2 0 0 1 | 6 | MATH 125, 129B | Int. Algebra | You may enroll in Math 125 or Math 129B. |
| IAS>0 | 15 | | EA Ref Fr IA | You must take the Elementary Algebra Test to determine your placement. |

Note: CMP is a function which compares sub score strings SSA (student's sub scores) and SSB (placement rule sub scores) and returns 1 (true) if $(1 \geq +/SSA < SSB) \&\& / -2 < SSA - SSB$.

That is equivalent to saying that CMP is true if: no more than one sub score in SSA is below corresponding sub score in SSB AND no sub score in SSA is more than 1 below corresponding sub score in SSB.

| MDTP ELEMENTARY ALGEBRA DIAGNOSTIC TEST (EA50C86) | | | | |
|--|-----------------|---------------------|----------------|--|
| TP: 6 6 5 4 6 7 4 6 6 ML: 4 4 4 3 4 5 3 4 4 (EA Topics: ARTH EXPS GEOM GRPH LINR POLY QUAD RATL WORD) | | | | |
| Placement Rule (Begin at top and fall through until condition is met.) | Placement Level | Courses Unblocked | Placement Name | Placement Message |
| EAS \geq 40 & EASS CMP 3 4 3 3 4 5 3 4 4 | 12 | | IA Ref Fr EA | You must take the Intermediate Algebra Test to determine your placement. |
| EAS \geq 30 & EASS CMP 3 3 2 2 3 4 2 3 2 | 6 | MATH 125, 129B | Int. Algebra | You may enroll in Math 125 or 129B. |
| EAS \geq 24 & EASS CMP 3 2 2 2 1 4 2 2 2 | 7 | MATH 123B | Math 123B | You may enroll in Math 123B. |
| EAS \geq 10 & EASS CMP 2 0 1 1 0 1 0 0 0 | 8 | MATH 115, 123A, 137 | Elm. Algebra | You may enroll in Math 115, 123A, or 137.. |
| EAS>0 | 16 | | AR Ref Fr EA | You must take the Algebra Readiness Test to determine your placement. |

| MDTP ALGEBRA READINESS TEST (AR50C90) | | | | |
|---|-----------------|---------------------|----------------|--|
| TP: 9 6 5 9 10 11 ML: 6 4 4 6 7 8 (AR Topics: DECM EQTN EXPS FRAC GEOM INTG) | | | | |
| Placement Rule (Begin at top and fall through until condition is met.) | Placement Level | Courses Unblocked | Placement Name | Placement Message |
| ARS \geq 38 & ARSS CMP 7 4 3 6 4 8 | 13 | | EA Ref Fr AR | You must take the Elementary Algebra Test to determine your placement. |
| ARS \geq 26 & ARSS CMP 6 2 1 4 2 6 | 8 | MATH 115, 123A, 137 | Elm. Algebra | You may enroll in Math 115, 123A, or 137.. |
| ARS \geq 14 & ARSS CMP 3 0 0 1 0 2 | 9 | MATH 112, 129A | Math 112 | You may enroll in Math 112 or 129A. |
| ARS>0 | 10 | | Math 105 | You may enroll in Math 105. |

| NO MATH PLACEMENT | | | | |
|---|-----------------|-------------------|----------------|--|
| Placement Rule | Placement Level | Courses Unblocked | Placement Name | Placement Message |
| EA Ref Fr AR & AR Ref Fr EA OR IA Ref Fr EA & EA Ref Fr IA OR AR Ref Fr EA & EA Ref Fr AR OR PC Ref Fr IA & IA Ref Fr PC OR EA Ref Fr IA & IA Ref Fr EA | 17 | | Not Placed | Please see a counselor before taking math. |
| PCS=IAS=EAS=ARS=0 | 18 | | Not Assessed | No mathematics assessment test has been taken. |

MATH PARAGRAPHS

| Condition | Paragraph Number | Paragraph |
|---|------------------|---|
| Math Score changed by multiple measures | 7 | <p style="text-align: center;">Below are your Math Assessment Scores:</p> <p style="text-align: center;">Test Total Raw Score Topic Sub Scores Multiple Measure Points</p> <p style="text-align: center;">\$</p> <p>The test scores were determined by how many test-items you got right. The Multiple Measure Points were based on your responses to the background questions. Your math placement was determined by a formula that took all of these results into account. To get valuable advice from a counselor or math teacher, please bring this advisement report with you when you discuss your educational plan or career goals with them.</p> |
| Elementary Algebra Placement (Level 8) | 8 | <p>You are eligible to enroll in Elementary Algebra. You may enroll in Math 115, which presents the material in one semester, or you may enroll in Math 123A and B, which presents the material over two semesters.</p> <p>As of Fall 2009, minimum Math Competency for the AA/AS degree is Intermediate Algebra. Math 123A, 123B and 123C present this material over 3 semesters, while Math 134A and 134B present the material over 2 semesters.</p> |
| Math 215 (Level 4) | 9 | <p>You are eligible to enroll in Math 215 only if you meet the geometry prerequisite, Math 121 or Math 120, or two semesters of High School Geometry, with a grade of "C" or better. If your geometry prerequisite was met in high school or at another institution, you can satisfy the prerequisite by taking your transcript to the Counseling Office.</p> |
| Math 240 (Level 3) | 10 | <p>You are eligible to enroll in Math 240 only if you meet the geometry prerequisite, Math 121 or Math 120, or two semesters of High School Geometry, with a grade of "C" or better. If your geometry prerequisite was met in high school or at another institution, you can satisfy the prerequisite by taking your transcript to the Counseling Office.</p> |

Note: Presence of "\$" as first and only character on third print line in paragraph 7 causes computer to insert indicated scores and points.

Placement Enforcement Diagram

| Placement Level | Courses Unblocked by APMS | Placement Course Prerequisites Satisfied* | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|-----|------|-----|-----|------|-----|
| | | 275 | 270 | 267 | 266 | 265 | 260 | 240 | 215 | 245 | 238 | 227 | 121 | 123C | 125 | 129B | 123B | 115 | 123A | 137 | 112 | 129A | 105 |
| | 275 | | | | | | | | | | | | | | | | | | | | | | |
| | 270 | | | | | | | | | | | | | | | | | | | | | | |
| | 267 | | | | | | | | | | | | | | | | | | | | | | |
| | 266 | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 265 | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | |
| 2 | 260 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | |
| 3 | 240 | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 4 | 215 | | | | | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| | 245 | | | | | | | | | ✓ | | | | | | | | | | | | | |
| | 238 | | | | | | | | | | ✓ | | | | | | | | | | | | |
| | 227 | | | | | | | | | | | ✓ | | | | | | | | | | | |
| 5 | 123C | | | | | | | | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | |
| 6 | 125 | | | | | | | | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 129B | | | | | | | | | | | | | | ✓ | | | | | | | | |
| 7 | 123B | | | | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 8 | 115 | | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | |
| | 123A | | | | | | | | | | | | | | | | | | ✓ | | | | |
| | 137 | | | | | | | | | | | | | | | | | | | ✓ | | | |
| 9 | 112 | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | 129A | | | | | | | | | | | | | | | | | | | | | ✓ | |
| 10 | 105 | | | | | | | | | | | | | | | | | | | | | | |

*Within each Placement Level, each course unblocked by APMS satisfies one or more Placement Course Prerequisites, identified by a checkmark vertically below each one. For example, at Placement Level 6, a student will be permitted to enroll in Math 125, 129B, 123B, 115, 123A or 137. (For those familiar with the LACCD prerequisite system, each vertical column corresponds to the S461 screen used to manage course and placement prerequisite information for the course identified. For Math 275-266, there are no checkmarks because APMS does not unblock at that level. For Math 105, there is no checkmark because the lack of a prerequisite for Math 105 means that enrollment in Math 105 is always permitted.)