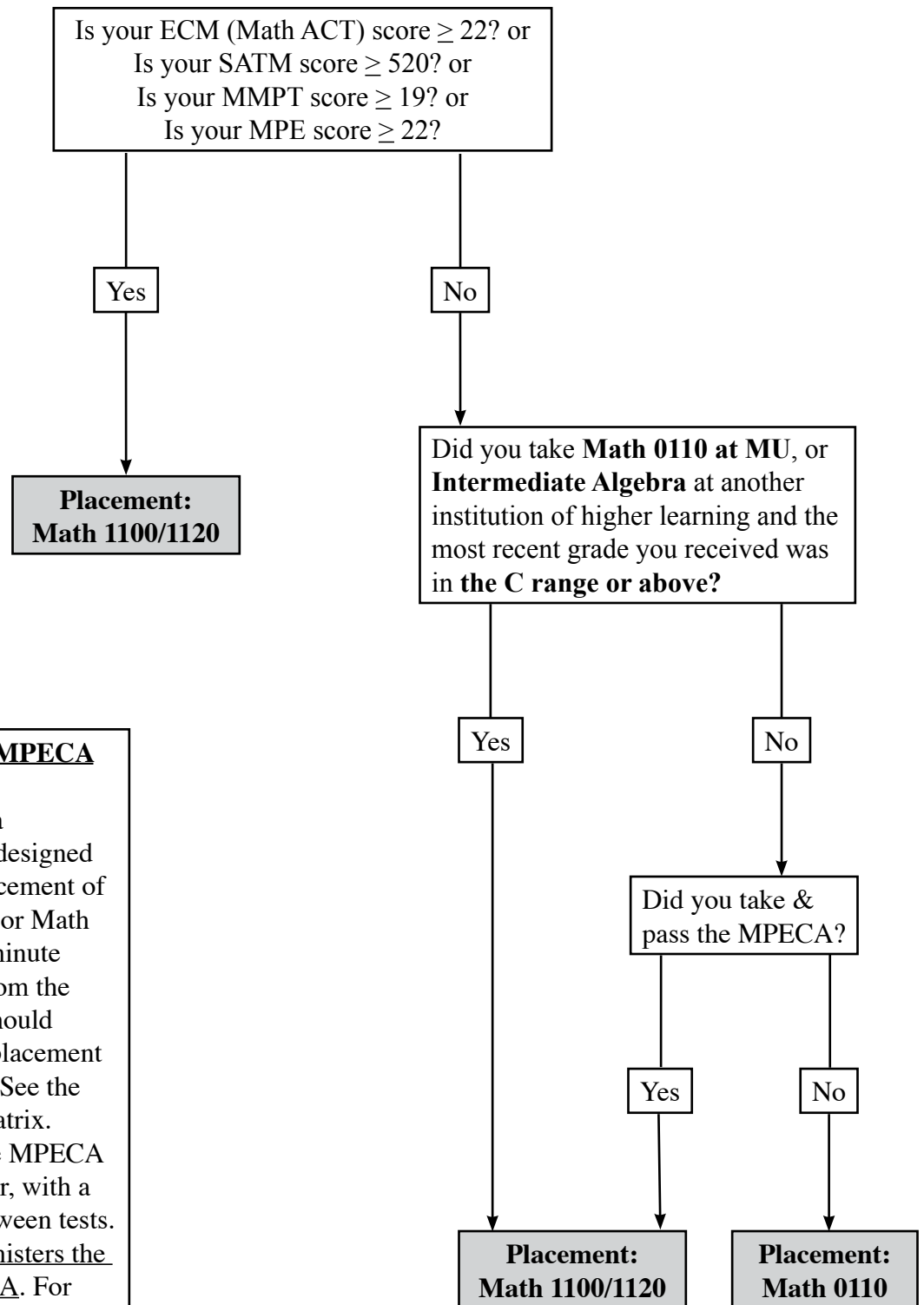


## PLACEMENT IN MATH 0110 & MATH 1100/1120



### Administration of the MPECA

- ◆ The MPECA exam is a placement instrument designed exclusively for the placement of students in Math 0110 or Math 1100/1120. It is a 90-minute exam, which differs from the MMPT. The MMPT should primarily be used for placement in other math courses. See the attached Placement Matrix.
- ◆ A student may take the MPECA and MMPT once a year, with a full academic year between tests.
- ◆ Testing Services administers the MMPT and the MPECA. For more information, please visit the Math Department website at [www.math.missouri.edu/courses/placement/index.html](http://www.math.missouri.edu/courses/placement/index.html).

# MATRIX FOR OTHER MATH COURSES

Effective FS2003

## Based on ECM (Math ACT score)

ADVISEMENT GROUP	M1140	M1160	M1300	M1320	M1400	M1500	MRP
One	23	23	26	26	26	26	26
Two	23	23	26	26	26	26	26
Three	23	23	26	26	26	26	26
Four	24	24	26	26	26	26	26

\*HCM = highest Math ACT score in CICS

\*ECM = current Math ACT score in CICS

## Based on SATM (Math SAT score)

ADVISEMENT GROUP	M1140	M1160	M1300	M1320	M1400	M1500	MRP
One	540	540	600	600	600	600	600
Two	540	540	600	600	600	600	600
Three	540	540	600	600	600	600	600
Four	540	540	600	600	600	600	600

\*HTM = highest Math SAT score in CICS

\*RTM = current Math SAT score in CICS

## Based on MMPT (Missouri Math Placement Test score)

ADVISEMENT GROUP	M1140	M1160	M1300	M1320	M1400	M1500	MRP
One	21	21	26	26	26	26	26
Two	21	21	26	26	26	26	26
Three	21	21	26	26	26	26	26
Four	21	21	26	26	26	26	26

\*MMP = MMPT score on CICS

## OTHER POLICIES REGARDING PLACEMENT

1. An ACT Math score of 26 or higher (or SAT Math score of 600 or higher) exempts students from having to take Math 1100/1120—such students have satisfied the General Education College Algebra requirement and may take an MRP (Math Reasoning Proficiency) course. There is, however, no awarding of credit hours for Math 1100 based on ACT or SAT scores alone. See note 2 below.
2. A score of 26 or higher on the MMPT exempts students from College Algebra, and results in the awarding of 3 credit hours for College Algebra.
3. Math 0110 carries 3 units of credit for purpose of hours of enrollment for financial aid, insurance, etc, but these units do NOT count towards any baccalaureate degree at MU.
4. Math 1360 is an MRP course for elementary education majors.
5. A grade of C- or above in Math 1100/1120 is required.
6. At most 5 credit hours may be earned in Math 1100/1120, 1121, 1140, 1160, 1180.
7. Students with one calculus course (C range grade) satisfy the MRP requirement.
8. Math 1100 is the recommended prerequisite for calculus (e.g. M1320 or M1400). Math 1120 is the recommended prerequisite for non-calculus math students.
9. Math 1160 is for students headed for Math 1500.
10. M1300, M1320, M1340, M1360, M1400 and M1500 are Math Department MRP courses.
11. Students do NOT get credit for Math 1100/1120 by taking Math 1300.
12. Students are placed in Math 0110 or Math 1100/1120 based on the flowchart.

## **Mathematics Department Advanced Standing Credit Policy** (Effective Fall 2005)

### **A grade of C- or above in calculus, 1320 or 1400, at MU results in credit for 1100:**

Students, who do not already have credit for college algebra or pre-calculus, will receive advanced standing credit for Math 1100/1120 if they take a calculus course (M1320, M1400) at MU (not at another institution) and receive a grade in the C range or higher. Transfer calculus courses DO NOT result in back credit for Math 1100/1120.

### **A grade of C- or above in calculus, 1500, 1700, or 2300, at MU results in credit for 1160 (or equivalent):**

Students, who do not already have credit for pre-calculus, will receive advanced standing credit for Math 1160 if they take a calculus course (M1500, M1700, M2300) at MU (not at another institution) and receive a grade in the C range or higher. In case a student has received credit for Math 1100 prior to the completion of Math 1500, Math 1700, or Math 2300 with a grade of C- or above, the student will receive additional credit for Math 1140, Trigonometry (credit should not be awarded for both Math 1100 and Math 1160).

### **A grade of B- or above in Math 1700 at MU results in credit for 1500 and 1160 (or equivalent):**

Students, who do not already have credit for college algebra or pre-calculus, will receive advanced standing credit for Math 1160 and 1500 if they take Math 1700 at MU (not at another institution) and receive a grade in the B range or higher. In case a student has received credit for Math 1100 prior to the completion of Math 1700 with a grade of B- or above, the student will receive additional credit for Math 1140 and Math 1500 (credit should not be awarded for both Math 1100 and Math 1160).

### **A grade of B- or above in Math 2300 at MU results in credit for 1700, 1500 and 1160 (or equivalent):**

Students, who do not already have credit for college algebra or pre-calculus, will receive advanced standing credit for Math 1160, 1500 and 1700 if they take Math 2300 at MU (not at another institution) and receive a grade in the B range or higher. In case a student has received credit for Math 1100 prior to the completion of Math 2300 with a grade of B- or above, the student will receive additional credit for Math 1140, Math 1500, and Math 1700 (credit should not be awarded for both Math 1100 and Math 1160).

### **Credit by Examination:**

- Students receive credit for Math 1160 and Math 1500 by earning a 3 or higher on the AP test (AB calculus test). [However, students with only a 3 are advised to take Math 1500 if they plan on taking Math 1700.] In case a student already has credit for Math 1100, he/she will receive credit for Math 1140 instead of Math 1160 (credit should not be awarded for both Math 1100 and Math 1160).
- Students receive credit for Math 1160, Math 1500, and Math 1700 by earning a 3 or higher on the AP test (BC calculus test). [However, students with only a 3 are advised to take Math 1700 if they plan on taking Math 2300.] In case a student already has credit for Math 1100, he/she will receive credit for Math 1140 instead of Math 1160 (credit should not be awarded for both Math 1100 and Math 1160).
- Students may also receive credit for Math 1500 and/or Math 1700 by taking a test administered by the Mathematics Department.

## FAQ CONCERNING MATH 0110, 1100, 1120, 1140 & 1160

1. Math 1100 or Math 1120 is a prerequisite for Math 1140.
2. Students may NOT take concurrently Math 1100/1120 and Math 1140.
3. Math 1100 + Math 1140 is considered an adequate preparation for Math 1500.
4. Math 1160 does not cover the exact same content as Math 1100 + Math 1140.
5. Math 1160 covers more algebra topics than Math 1100, but covers the content of Math 1140.
6. Math 1100 or Math 1120?

Although Math 1100 and Math 1120 are both College Algebra courses, they differ. Math 1100 is for Calculus bound students while Math 1120 is for students who do not intend to take a calculus course.

FAQ	Math 1100	Math 1120
<i>What are the prerequisites for Math 1100 or Math 1120?</i>	A grade of C- or above in Math 0110 or equivalent; ACT-Math $\geq 22$ ; SAT-Math $\geq 520$ ; MPECA $\geq 22$ ; MMPT $\geq 19$	A grade of C- or above in Math 0110 or equivalent; ACT-Math $\geq 22$ ; SAT-Math $\geq 520$ ; MPECA $\geq 22$ ; MMPT $\geq 19$
<i>Difficulty level?</i>	Same	Same
<i>Who should take which course?</i>	Any student who is <u>calculus bound</u> or unsure of their field of study	Any student who will <u>not</u> be taking calculus.
<i>Math 1100 or Math 1120 are prerequisites for what other math courses?</i>	Math 1140 (Trigonometry) Math 1300 (Finite Math) Math 1320 (Calculus for Business) Math 1360 (Geometric Concepts) Math 1400 (Calculus for Social Sciences I) Any MRP course.	Math 1140 (Trigonometry) Math 1121 Math 1300 (Finite Math) Math 1360 (Geometric Concepts) Any MRP course that does not require calculus or trigonometry.
<i>Does either course offer adequate preparation for Math 1500?</i>	No. Math 1100 + Math 1140 may be considered as adequate preparation towards Math 1500. <u>Please note:</u> Math 1160 is not equivalent to Math 1100 + Math 1140. Math 1160 covers more algebra topics than Math 1100 + Math 1140.	No. Math 1120 + Math 1121 + Math 1140 may be considered adequate preparation towards Math 1500.
<i>Do both courses differ in emphasis?</i>	Yes, emphasis on algebraic manipulative skills.	Yes, less emphasis on algebraic manipulative skills. Emphasis on problems solving, real world applications, and data analysis.
<i>How much calculator use is in Math 1100 and Math 1120?</i>	Some use of scientific calculators. No specific type needed. More paper and pencil work.	Extensive use of the advanced functions of the Casio FX-9750G Plus or Casio CFX-9850GB Plus is required. Calculators are an integral part of the course.
<i>What is the curriculum content in those two courses?</i>	More emphasis on algebraic manipulative skills (e.g. factoring, simplifying algebraic expressions). Covers absolute value, polynomial and rational functions Absolute value, polynomial and rational inequalities.	Graph & chart interpretation. Making sense of data & functions Optimization problems Rates of change. Unit conversions & multiple conversion factors Logarithmic scales
<i>Any major differences in pedagogical approach?</i>	Yes. Goes from theory to applications. Stresses prerequisite skills necessary for other math courses including calculus.	Yes. Goes from applications to theory. Math becomes more relevant. Math 1120 offers motivation for the study of College Algebra, which is viewed and experienced as an important tool in problem solving and decision making.