

Montgomery College
Mathematics Department

Math 091 Students:

As you finish MA 091, you should be working with your Mathematics instructor and academic advisors planning your degree program to ensure registration in the appropriate mathematics course. You will have a choice of math courses that have been designed to meet specific degree requirements. There are three choices: Math 101, Math 103, and Math 115A.

Math 101, Intermediate Algebra for Liberal Arts, a three contact hour course designed for students whose degree plan requires only one General Education Mathematics course. Upon successful completion of MA 101, you are eligible to enroll in any of the following courses:

- * MA 110, Survey of College Mathematics
- * MA 113, Introduction to Probability
- * MA 115, Mathematical Ideas
- * MA 116, Elements of Statistics

These courses are in the non-calculus track of the mathematics offerings and should be carefully discussed with an advisor to meet your long term degree requirements.

Math 103, Intermediate Algebra, a four contact hour course designed for students whose degree plan requires further study of mathematics; Business, Science, Engineering, Mathematics, and Elementary Education students should take this course. Upon successful completion of MA 103, you are eligible to enroll in any of the following courses:

- MA 130, Elements of Mathematics
- MA 160, Elementary Applied Calculus
- MA 180, Precalculus (MA 105, Introduction to Trigonometry, is required for MA 180. It may either be taken while taking MA 103 or during the first half of MA 180.)

Each of the above courses is designed to meet the specific requirements of diverse academic degree plans. Careful planning with your instructor and counselor is highly recommended.

Math 115A, Mathematical Ideas with Intermediate Algebra, a five contact hour course intended for students **who have earned a grade of A in Math 091 and** whose degree plan requires only one General Education mathematics course. Although it is designed to complete the math requirement in one semester, successful completion of MA 115A allows a student to enroll in MA 116, Elements of Statistics.

Advising notes:

If you are uncertain of your long term goals and have not chosen a degree plan, **Math 103** will meet your requirements as a prerequisite math course for ANY higher level mathematics required by a degree plan. If a degree plan requires *Mathematics Foundation* only then students may take MA 101 and any of the courses that follow it.

To avoid enrolling in an inappropriate course, **consult with your instructor and a counselor.**

Mathematics Options After MA 091

| Intermediate Algebra Options | | | |
|------------------------------|--|---|--|
| | Math 101 Intermediate Algebra for Liberal Arts | Math 103 Intermediate Algebra | Math 115A Mathematical Ideas This is only open to students with an A in Math 091. |
| Contact hours | 3 | 4 | 5 |
| Credit hours | 3 | 3 | 3 |
| Next course | Math 110, Survey of College Mathematics Math 113, Introduction to Probability Math 115, Mathematical Ideas Math 116, Elements of Statistics | In addition to Math 100, Math 113, Math 115, and Math 116, students are eligible for: Math 105 Introduction to Trigonometry ¹ Math 130 Elements of Mathematics I (for elementary school teachers.) Math 160 Elementary Applied Calculus Math 180 Precalculus | None or Math 116, Elements of Statistics |
| Intended for | Students who only need one college level math course and those who only need math courses from the above list | Students who wish to take calculus or students who plan to become elementary school teachers | Any liberal arts student who wants to finish math as quickly as possible. |
| Not intended for | Do not take if you are uncertain as to how much math you will need. | Do not take if you know you will never take any of the above courses. | Do not take if you need additional mathematics or have not met the prerequisite. |

¹ MA 105 can be taken simultaneously with Math 103 or with the first half of Precalculus.