

*Montgomery College - Department of Mathematics
Rockville Campus*

**MA161 – Applied Elementary Calculus II
3 Semester Hours**

Description	<p>Continuation of MA 160. Differential and integral calculus for business and non-engineering students. Trigonometric functions, techniques of integration, differential equations, numerical methods, probability, and applications. Programming will be introduced and used to solve problems. Not open to students who have a grade of C or better in MA 182, MA 282, MA 284, or their equivalents.</p> <p>MA161 meets 3 hours each week.</p>
Prerequisites	<p>A grade of C or better in MA 160 or consent of department.</p> <p>Assessment levels: EN 101/101A, RD 120.</p>
Topics	<ol style="list-style-type: none">I. Functions of several variablesII. Trigonometric functionsIII. Techniques of integrationIV. Differential EquationsV. Taylor Polynomials and Infinite Series
Text	<p><i>Calculus and its Applications</i>. Eleventh edition. Larry J. Goldstein, David C. Lay and David Schneider.</p>