

math210 Syllabus

Math 210: Practical Mathematics

Text: *Precalculus, 3rd edition*, Cynthia Y. Young, Wiley, 2018.

Prerequisites: Minimum ACT math score of 25 or SAT MATH score of 570 or credit in MATH 102, MATH 103/104 , or MATH 105. **A TI-83, TI-84, or TI-Nspire (not CAS version) graphing calculator is required. WileyPlus is required.**

Sections and Topics

- 1.1 Functions
- 1.2 Graphs of Functions
- 1.3 Graphing Techniques: Transformations
- 1.4 Combining Functions
- 1.5 One-to-one Functions and Inverse Functions
- 0.7 Modeling Variation
- A7 Complex Numbers
- 0.2 Quadratic Equations
- 2.1 Quadratic Functions
- 3.1 Exponential Functions and Their Graphs
- 3.2 Logarithmic Functions and Their Graphs
- 3.3 Properties of Logarithms
- 3.4 Exponential and Logarithmic Equations
- 4.1 Angle Measure
- 4.2 Right Triangle Trigonometry
- 4.3 Trigonometric Functions of Angles
- 4.4 The Law of Sines
- 4.5 The Law of Cosines
- 5.1 Trigonometric Functions: The Unit Circle Approach
- 5.2 Graphs of Sine and Cosine Functions
- 5.3 Graphs of other Trigonometric Functions (Tangent and Cotangent only)
- 6.5 Inverse Trigonometric Functions
- 7.1 Vectors
- 9.1 Conic Basics (if time permits)
- 9.2 The Parabola (if time permits)
- 9.3 The Ellipse (if time permits)

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