

Revised: Fall 2016

Math 116

Technical Mathematics II

COURSE OUTLINE

Prerequisites:

Placement recommendation for Math 116, Algebra 1 and Geometry, or Algebra 1 and Algebra 2, or equivalent

Course Description:

Presents algebra through exponential and logarithmic functions, trigonometry, vectors, analytic geometry, and complex numbers. Part I of II

Semester Credits: 3 Lecture Hours: 3

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Course Outcomes

At the completion of this course, the student should be able to:

1. Solve problems involving complex numbers.
2. Solve Arc length and circular motion problems.
3. Use properties of logarithms to solve equations
4. Graph and analyze trigonometric and parametric functions.
5. Solve applied problems associated with engineering technology.

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Required Materials:

Graphing Calculator Preferably the TI-89

Students are strongly encouraged to purchase a TI-89 graphing calculator in order to be able to carry out computations. The TI-89 is also recommended by the Engineering Division for courses in the Engineering Technology curriculum.

Textbook:

Technical Mathematics, Calter and Calter, Sixth edition John Wiley publisher.
ISBN: 978-0-470-53492-2

The following supplementary materials are available:

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Topical Description

Chapters to cover

1	Ch 14	Radian Measure, Arc Length and Rotation
2	Ch 15	Trigonometric, Parametric and Polar Graphs
3	Ch 17	Ratio Proportion and Variation
4	Ch 18	Exponential and Logarithmic Functions
5	Ch 19	Complex Numbers
6	Ch 21	Statistics (Optional)

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Notes to Instructors

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