

# Virginia Western Community College

## Math 131

### Technical Mathematics

#### Prerequisites

MTE 1-6 or a placement recommendation for MTH 131 or equivalent.

#### Course Description

Presents algebra through unit conversion, Trigonometry, Vectors, Geometry and Complex Numbers

**Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0**

#### Required Materials

##### Textbook:

Basic Technical Mathematics with Calculus by Allyn J Washington and Richard S. Evans. 11th edition  
ISBN : 978013443773

##### Other Required Materials:

Scientific Calculator

#### Course Outcomes

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

- Interpret and communicate quantitative information and mathematical and statistical concepts using language appropriate to the context and intended audience.
- Make sense of problems, develop strategies to find solutions, and persevere in solving them.
- Reason, model, and make decisions with mathematical, statistical, and quantitative information.
- Critique and evaluate quantitative arguments that utilize mathematical, statistical, and quantitative information.
- Use appropriate technology in a given context.

#### Topical Description

Chapter 1 : Basic Algebraic Operations

Chapter 2 : Geometry

Chapter 4 : The Trigonometric Functions

Chapter 8 : Trigonometric Functions of Any Angle

Chapter 9 : Vectors and Oblique Triangles

**Chapter 12 : Complex Numbers**

**Notes to Instructors**

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