

MATH 1090 (Algebra and Trigonometry) — Fall 2026

Course Outline

UNIT 1: FUNDAMENTAL CONCEPTS OF ALGEBRA (4 weeks)

- 1.1: Number Systems
- 1.2: Exponents
- 1.3: Polynomial Expressions
- 1.4: Absolute Values
- 1.5: Rational Expressions
- 1.6: Radicals
- 1.7: Solving Equations
- 1.8: Non-Polynomial Equations

UNIT 2: FUNCTIONS AND THEIR GRAPHS (4 weeks)

- 2.1: Solving Inequalities
- 2.2: Functions
- 2.3: Lines
- 2.4: Composite Functions
- 2.5: Inverse Functions
- 2.6: Graphs of Functions
- 2.7: Graphing Functions

UNIT 3: TRANSCENDENTAL FUNCTIONS (4 weeks)

- 3.1: Right Triangle Trigonometry
- 3.2: Unit Circle Trigonometry
- 3.3: Trigonometric Formulas
- 3.4: Trigonometric Equations
- 3.5: Exponential and Logarithmic Functions
- 3.6: Exponential and Logarithmic Equations