

# Pre-Technical Mathematics

*Made Easier*

Pre-Technical Mathematics will be a review of fundamental math concepts for some students and may break new ground for others. Nevertheless, students of all backgrounds will be delighted to find a refreshing course that appeals to all learning styles and reaches out to diverse demographics. Through down-to-earth explanations, patient skill-building, and exceptionally interesting and realistic applications, this course will empower students to learn and master mathematics in the real world. Students who enroll in this course will receive a **FREE MATH PRO** Interactive Software to further enhance their learning experience and a **Certificate of Completion**. If you are having trouble with everyday mathematics, this is time for you to start ahead and get ahead with your studies before getting to college or university.

## Who will benefit from this Course?

- Adults seeking remedial math instruction to restore lost math skills.
- Students entering or returning to college, or preparing for college math placement tests.
- Home school students and distance learners.
- High school students requiring a remedial math program .
- Schools seeking developmental math courseware.
- Job seekers preparing for math proficiency tests.
- Anyone wishing to learn math easily and enjoyably.

Pre-Technical Mathematics is available as home study (correspondence) course or an instructor - led classroom setting. **Math Pro** is self paced and allows you to learn math at your own rate and comfort level. The lessons are easy to follow with step-by-step examples.

**Total Course Fee :** \$ 649.99.00 Cdn. (includes taxes, shipping and handling)

**Enrollment:** To enroll in this course, please e-mail us at : [info@ictpc.ca](mailto:info@ictpc.ca)

## Course Contents :

### Section I: Fundamentals of General Mathematics

Unit 1 Whole Numbers

Unit 2 Common Fractions

Unit 3 Decimal Fractions

Unit 4 Ratio and Proportion

Unit 5 Percents

Unit 6 Signed Numbers

## Section II: Measurement

- Unit 7 Precision, Accuracy, and Tolerance
- Unit 8 Customary Measurement Units
- Unit 9 Metric Measurement Units
- Unit 10 Steel Rules and Vernier Calipers
- Unit 11 Micrometers

## Section III: Fundamentals of Algebra

- Unit 12 Introduction to Algebra
- Unit 13 Basic Algebraic Operations
- Unit 14 Simple Equations
- Unit 15 Complex Equations
- Unit 16 The Cartesian Coordinate System and Graphs of Linear Equations
- Unit 17 Systems of Equations
- Unit 18 Quadratic Equations

## Section IV: Fundamentals of Plane Geometry

- Unit 19 Introduction to Plane Geometry
- Unit 20 Angular Measure
- Unit 21 Angular Geometric Principles
- Unit 22 Triangles
- Unit 23 Congruent and Similar Figures
- Unit 24 Polygons
- Unit 25 Circles

## Section V: Geometric Figures: Areas and Volumes

- Unit 26 Areas of Common Polygons
- Unit 27 Areas of Circles, Sectors, Segments, and Ellipses
- Unit 28 Prisms and Cylinders: Volumes, Surface Areas, and Weights
- Unit 29 Pyramids and Cones: Volumes, Surface Areas, and Weights
- Unit 30 Spheres and Composite Figures: Volumes, Surface Areas, and Weights

## Section VI: Basic Statistics

- Unit 31 Graphs: Bar, Circle, and Line
- Unit 32 Statistics

## Section VII: Fundamentals of Trigonometry

Unit 33 Introduction to Trigonometric Functions

Unit 34 Trigonometric Functions with Right Triangles

Unit 35 Practical Applications with Right Triangles

Unit 36 Functions of Any Angle, Oblique Triangles

Unit 37 Vectors