



**Georgian College
Academic and Career Preparation Program**

ACE Apprenticeship Math, AACE 1005

Course Description

In this course, students learn the necessary mathematical skills for apprenticeships, post-secondary programs and the workplace. Students solve applied problems involving number sense and algebra, measurement and geometry, proportional reasoning, analytic geometry, and trigonometric functions.

Learning Outcomes

Upon successful completion of this course, the student will have reliably demonstrated the ability to:

1. use computation and algebraic manipulation;
2. use measurement for various purposes;
3. solve geometry problems;
4. solve problems involving trigonometry;
5. analyze models of a variety of functions including exponential and trigonometric functions.

Course Materials, Content, and Evaluation

The primary textbook for Apprenticeship Math, *Intermediate Algebra 2e*, is an open educational resource (OER) and provided at no cost to students. You will also find the course content, assignments, quizzes, etc. on Blackboard, the college's learning management system (LMS). Course modules are listed in the chart on the next page.

The passing grade for this course is 50%, and ALL modules must be completed to receive a final mark. Please note that students who are pursuing post-secondary programs are responsible to find out the prerequisite(s) needed for acceptance, including any required grades. Admission requirements can change from one year to another, so it is important to make sure you have the most up to date information.

Course Modules

MODULES	ESTIMATED HOURS	ASSESSMENT TYPE	WEIGHT
Algebra Review	5	Test	5%
Solving Linear Equations	10	Test	10%
Systems of Equations	10	Test	10%
Factoring	10	Test	10%
Quadratic Equations and Functions (Apprenticeship)	10	Test	10%
Ratios and Proportions in Applications / Similar Triangles	10	Assignment	10%
Advanced Measurement with Estimation	10	Test	10%
Geometric Relationships	5	Test	5%
Right Angle Trigonometry	7	Test	7%
Oblique Angle Trigonometry	8	Test	8%
Option A*: Personal and Workplace Finance	15	Assignment	15%
Option B*: Manipulate Date Principles of Probability	15	Assignment	15%
*Select Option A or B			
TOTALS	100	Assignments 25% Tests 75%	100%