



# Physics 122

## Course Outline 2010 - 2011

Teacher: Mr. Peter MacDonald

Room 522

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### **Unit 1 (25 hours)**

1D Motion: Mathematical Analysis

Vectors to Analyze: Force and Motion in 1D and 2D

Conservation of Momentum

Collisions in Two Dimensions

### **Unit 2 (25 hours)**

Projectiles

Simple Harmonic Motion

Circular Motion

Universal Gravitation

### **Unit 3 (30 hours)**

Magnetic, Electrical, and Gravitation Fields

Coulomb's Law

Electric Circuits

Electromagnetism and Electromagnetic Induction

Evaluation:

Tests, Quizzes, Labs	70%
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Final Exam	30%
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Materials:

Binder & paper

Scientific Calculator

Pen/Pencil

Textbook: Physics (McGrawHillRyerson): Text and CD ROM Price >\$153.33