

SUNY University Physics - Calculus Based Physics for Scientists and Engineers
Full year course offered in two semesters for a total of 8.0 SUNY credits.
The Tuition cost at NCCC for CAP students is \$55 per credit hour.

Fall Semester: September - January

PHY 171 (September to January - 20 weeks)

Calculus-Based Physics I - Mechanics

(3 Lec. hrs., 3 Lab hrs. per week) 4 College Credits in SUNY system.

The first of four calculus-based, general physics courses supporting the customary baccalaureate science or engineering degree requirement. The subjects covered in PHY 171 are centered on mechanical phenomena. Topics include measurement and estimation, the description of motion, vectors and vector algebra, Newton's Laws of Motion, energy, momentum, rotational motion, static equilibrium, elasticity, and harmonic motion. (Serway & Beichner - Chapters 1 through 13.)

Tuition cost: \$220.00

Spring Semester: January - June

PHY 172 (January to June - 20 weeks)

Calculus-Based Physics II - Electricity & Magnetism

(3 Lec. hrs., 3 Lab hrs. per week) 4 Credits in SUNY system.

The second of four calculus-based general physics courses supporting the customary baccalaureate science or engineering degree requirement. The subjects covered in PHY 172 are centered on electro-magnetic phenomena. Topics include static electricity, fields and potentials, capacitance, resistance, DC circuits, RC circuits, magnetic forces and fields, induction, RL circuits, AC circuits, RLC circuits, and Maxwell's equations. (Serway & Beichner - Chapters 23 through 34.)

Prerequisites: PHY 171.

Tuition cost: \$220.00

Please fill out the form below which indicates your intent to
enroll in SUNY University Physics for the 2009-2010 school year.

Last Name: _____ First Name: _____ MI: _____

Student number: _____

SUNY University Physics for NCCC
(SUNY) Credit.

PHY 171 Calc-Based Phy I , 4 Credits, \$220.

PHY 172 Calc-Based Phy II, 4 Credits, \$220.

Date: ___/___/___

Parents Signature: _____