



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

Physics 152 – General Physics II

Course Information

Division	Science/Mathematics
Contact Hours	6
Theory	3
Lab Hours	3
Total Credits	4

Prerequisites **PHY 151**

Course Description

This course is a continuation of General Physics I. Topics include electricity and magnetism, light and optics, relativity, quantum, atomic and nuclear physics. This course requires laboratory work.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Calculate electric forces, fields, potentials and capacitances.
2. Discuss magnetic forces and fields including Ampere's and Faraday's laws.
3. Analyze DC and AC circuits.
4. Discuss Maxwell's equations and the production of electromagnetic waves.
5. Explain the nature and properties of light and the principles of geometric and wave optics.
6. Contrast concepts of classical physics with those of special relativity.
7. Outline basic concepts and applications of quantum mechanics and atomic and nuclear physics.

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