

[PHYS 1P94](#)

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Textbook

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Course Outline

What is this course all about?

[Brock calendar entry](#): Rotational and center-of-mass motion; work done by a variable force; electric and magnetic fields; electric potential and potential energy; magnetic induction; AC circuits and resonance; wave-particle duality; elements of modern physics. Use of computers for data acquisition; elements of computer programming; principles of scientific writing and communication

Pre-requisites: PHYS 1P21 and one of MATH 1P05, 1P01 or 1P97

Lectures

Instructor: [G.Hester](#)

Lectures: Location:TBA

Labs/Tutorials Location: TBA

Textbook

The textbook is *University Physics* by Moebs Ling and Sanny, published by OpenStax (Rice University). It consists of three on-line volumes:

- » [University Physics Vol. 1](#)
- » [University Physics Vol. 2](#)
- » [University Physics Vol. 3](#)

and is available to download for free at <http://cnx.org>.

[Academic Integrity](#)

Sources of help

- » [Ivana Komljenovic-Metcalf](#) (B210A, ext.3417, ikmetcalf@brocku.ca): TBA
- » [Phil Boseglav](#) (B211, ext.4109, fboseglav@brocku.ca): TBA

Grading Scheme

Component	PHYS 1P94	Comments
homework	15%	Weekly homework is assigned and graded through WeBWorK online testing system. Repeated attempts are possible, as the problems are randomly selected and modified. A mixture of qualitative and numerical problems.
weekly tests	35%	11-12 tests. The problems are similar to those practiced in WeBWorK, solved by hand on paper. Two lowest test grades (but not zeros for tests missed without a medical/compassionate excuse) are dropped from the average.
final exam	30%	You must pass the final exam (50% or more) in order to pass the course.
laboratories	20%	Completing all labs, and submitting all written lab reports are required to complete the lab component of the course.