When/Where:
M, W, F: 11:30 to 12:20 pm, Room MC 4063

Instructors
Prof. Roger Melko  Office: Phys 368, 519 888-4567 x 38406
Office hours: Thursdays, 2pm to 4pm, office PHYS 368
TA: Ann Kallin (Phys 402)

Course topics

- Oscillations in one and higher dimensions.
- Dynamics of particles and systems of particles.
- Lorentz transformations and special relativity.

Resources

Lectures. You are responsible for everything that the professor presents in lectures.


Alternative Textbooks: Marion & Thornton

Course Website: http://www.science.uwaterloo.ca/~rgmelko/Teaching.html

Student assessment

Students will be marked on the most favorable of two grade schemes:

A) 20% Assignments, 30% Midterm*, 50% Final examination

B) 20% Assignments, 10% Midterm*, 70% Final examination

Assignments will be handed out in class, and are generally due in one week, to be handed back to the instructor in class. Exceptions to this will be noted by the instructor/TA. Late assignments may be considered out of a reduced total grade, with prior instructor permission.

The Midterm will tentatively be scheduled for Monday, Feb. 13th, or Tuesday, Feb. 14th.

* Writing the midterm is mandatory in order to pass the course.
Students with disabilities

The Office for Persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.

Statement regarding travel and the final examination period

*Student travel plans are not considered acceptable grounds for granting an alternative examination time.*

see [http://www.registrar.uwaterloo.ca/exams/finalexams.html](http://www.registrar.uwaterloo.ca/exams/finalexams.html)

Expectation of Academic Integrity

To create and promote a culture of academic integrity, the behaviour of all members of the University of Waterloo should be based on honesty, trust, fairness, respect and responsibility.

Student Grievances

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read *Policy #70*, Student Petitions and Grievances, Section 4, [http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm)

Student Discipline

A student is expected to know what constitutes academic integrity, to avoid committing academic offenses, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about “rules” for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. For information on categories of offenses and types of penalties, students should refer to *Policy #71*, Student Discipline, [http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm)

Student Appeals

Concerning a decision made under Policy #70 (Student Petitions and Grievances) (other than petitions) or Policy #71 (Student Discipline) a student may appeal the finding, the penalty, or both. A student who believes he/she has a ground for an appeal should refer to *Policy #72* (Student Appeals)

[http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm)