

Physics 30 Course Syllabus

Text: Pearson Physics, Ackroyd et al

Notes: <http://fc.gsacrd.ab.ca/~cblair>

Content

Alberta Learning:2008

Physics 30 consists of four units of study:

- A. Momentum and Impulse
- B. Forces and Fields
- C. Electromagnetic Radiation
- D. Atomic Physics

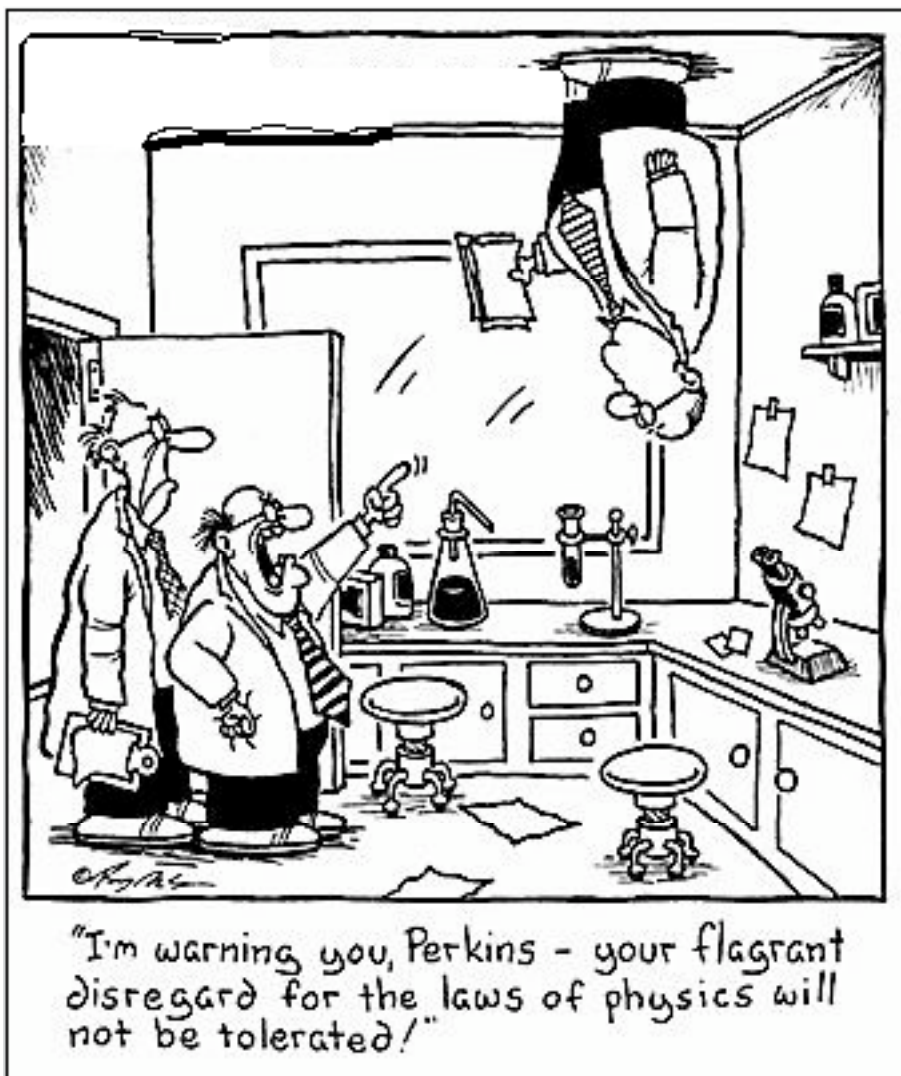
Attitude Outcomes

Students will be encouraged to develop positive attitudes that support the responsible acquisition and application of knowledge related to science and technology. The following attitude outcomes are to be developed throughout Physics 30, in conjunction with the specific outcomes for Knowledge; Science, Technology and Society (STS); and Skills in each unit.

Interest in Science

Students will be encouraged to:
show interest in science-related questions and issues and confidently pursue personal interests and career possibilities within science-related fields;
e.g.,

- *research the answers to questions they generate*
- *explore and use a variety of methods and resources to increase their knowledge and skills*
- *be critical and constructive when considering new theories and techniques*
- *use scientific vocabulary and principles in everyday discussions*
- *recognize the usefulness of being skilled in mathematics and problem solving*
- *be interested in science and technology topics not directly related to their formal studies*
- *recognize the importance of making connections among various science disciplines*
- *maintain interest in pursuing further studies in science*
- *explore where further science- and technology-related studies and careers can be pursued*
- *recognize that many careers require science- and technology-related knowledge and skills.*



This is a diploma course and as such each student is required to write the government of Alberta exam before credits will be granted. This exam will make up 50% of the overall Physics 30 mark. The school mark, diploma mark and the blended mark will appear on the student transcript.

The school awarded mark will be determined as follows:

Assignments and labs: 20%

Unit exams: 80%

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The unit exams will be weighted according to the amount of time required to cover the material tested. Quizzes, assignments and labs will be weighted according to the total mark value of each. Students are encouraged to keep an accounting of their marks.

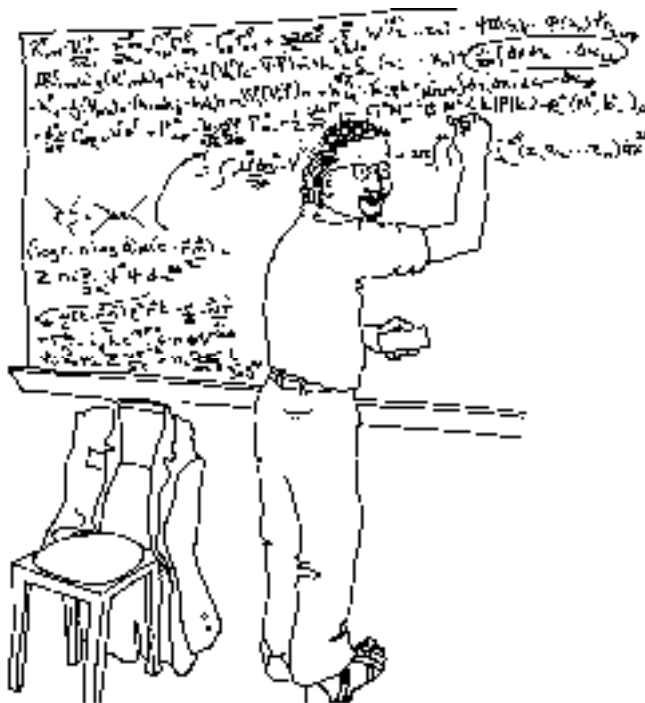
Students are encouraged to seek assistance from the teacher if required. Please arrange a time convenient to you and the teacher. (Usually lunch or after school.)

Should a student have an excused absence for any test or quiz other than the final, the procedure indicated in the policy handbook will apply. Generally, any assignment or quiz that is missed must be made up during supervised times after school, or as arranged by the teacher, immediately upon return to school. If an exam is missed, the student will be required to complete a mentoring session at lunch on Wednesday and the exam will be written on Friday (or the designated writing time) after school. **If the make-up exam is missed, then a zero will be recorded and the exam must be made up during the final exam schedule.**

Textbooks: the textbook is the responsibility of the student once they receive it from the library. Please look through the book and note any damages or marks and notify the librarian of these. The condition of the book will be monitored upon its return and any damages may require to be paid for by the student.

Extra Credit: Depending upon availability, a field test may be administered by a representative from Alberta Education. A mark will be given for the exam and this mark may be used to enhance the school-based mark.

Calculator Policy: Read the calculator policy posted in the room. No programmed formulas of any kind can be stored in the calculator.



At this point we can see that the equation can be simplified if we assume that space-time has 92 dimensions.