

Introduction to Physics IIB (Physics for Life Science)

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This first course in Physics at the university level is intended for students enrolled in the

Physics for Scientists and Engineers (3rd edition) by Knight. Copies are available at the UTSC bookstore. There are a variety of formats (including an e-

Finally, since the Practicals are team-based, it is important that you show up every week. To encourage this, a penalty to your Practical Group Work and Formal Lab grades will be applied. So you stand to lose up to 20% of your final grade for absences from Practicals. This penalty will be the CUBE of the number of absences, as a percent. If you miss 4 Practicals, your grade will suffer by 64%. This is in addition to not getting credit for the group work which you were absent for.

If you are more than 10 minutes late (arrive at 9:20, say, instead of 9:10) you will be counted as absent, but will still get credit for the group work. Similarly, if you leave early you will also be counted as absent.

PHYA22 is supported by Facilitated Study Groups. These weekly study sessions are open to everyone in the class. Attendance is voluntary, but students who attend regularly often earn higher grades. Please be sure to fill out the survey in the first week of class to help ensure the study groups are scheduled at optimal times. If you have any questions, please ask your facilitator, or visit the FSG website at <http://ctl.utoronto.ca/home/fsg>.

If you have any concerns about the course and your ability to do well, please come see me and we can discuss your situation. I am happy to make reasonable accommodations to ensure that all students have an equal opportunity to do well in this course. You can also speak with the people at ACCESSAbility Services who can advise us both.

- Weeks 1 and 2 – Review of Kinematics & Basic Concepts (Chap. 1, 2 and 4)
- Weeks 2 and 3 – Forces, Newton's Laws (Chapters 5, 6)
- Weeks 3 and 4 – Dynamics III (Chapters 7)
- Weeks 5 and 6 – Newton's Third Law (Chapter 8)
- Weeks 6 and 7 – Impulse and Momentum (Chapter 9.1 – 9.6)
- Weeks 7 and 8 – Energy (Chapter 10)
- Week 8 – Work and Energy Conservation (Chapter 11)
- Week 9 – Rigid Objects and Torque (Chapter 12)
- Week 10 – Stationary and Dynamic Fluids (Chapter 15)
- Week 11 – Macroscopic Description of matter (Chapter 16)
- Week 12 – Thermodynamics (Chapters 17)