Plant Physiology (BIOB31H)
Course Syllabus, Winter 2014

Lectures: Tuesdays, 3-5pm, Rm SY110

Tutorials: Tutorial 1 January 9, 2014, 5-7pm, AC223
Tutorial 2 January 30, 2014, 5-7pm, AC223
Tutorial 3 February 27, 2014, 5-7pm, AC223
Tutorial 4 March 20, 2014, 5-7pm, AC223

Course Personnel	Role	e-mail
Prof. Vanlerberghe	Instructor (course content, test and exam marking)	gregv@utsc.utoronto.ca
Kelly Barnes	Coordinator (course administration)	kbarnes@utsc.utoronto.ca
Nicole Alber	Teaching Assistant (test and exam marking)	nikki.alber@utoronto.ca

Questions about course content?

If you have questions about the course content, the **instructor** is available to help you with this. The instructor has **office hours (in SY262) on Friday's from 9-11am and 2-4pm**. Please stop by during these times. Please note that the instructor can also provide brief answers to a few questions by e-mail (with about a 24 h turn-around) but it is more ideal to see him in person during office hours. Please note that only the instructor should be contacted if you have questions about the course content.

Questions about other aspects of the course?

If you have a question regarding an administrative matter related to the course (eg. missed exam, exam schedule, exam conflict, exam viewing and return, exam mark), please contact the **coordinator**.

Textbook

Plant Physiology **5th** edition by Lincoln Taiz and Eduardo Zeiger; Sinauer Associates Inc., 2010. You can buy the text at the UTSC bookstore.

Note that each chapter of the textbook ends with a useful summary. Also, a useful glossary of terms is present at the end of the textbook.

The text also comes with a free companion web site at **www.plantphys.net.** This site includes special web essays and topics (that are also listed at the end of each textbook chapter), as well as sample questions. The instructor may occasionally make reference to material on the website.

Lecture and Tutorial Materials

All of the slides and any other material presented in lecture and tutorial will be posted on a **course page in Blackboard** prior to the lecture or tutorial. **These materials are meant as a guide to the topics being presented. You should supplement these materials with your own in-class note-taking.** The Blackboard course page will also be used for other purposes such as **class announcements.**

Method of Evaluation	Date	% of Final Grade	Material To Be Tested
Term Test 1[a]	to be announced[b]	25%	Approximately **lecture hours 1-8 and tutorial 1** (exact coverage to be announced)
Term Test 2[a]	to be announced[b]	25%	Approximately **lecture hours 9-16 and tutorial 3** (exact coverage to be announced)
Final Exam	to be announced[b]	50%	**All** material from the course, but with an emphasis on the materials not yet tested.

[a] Please note that there is **no make-up test** if you miss a term test. If you miss a term test and **provide appropriate documentation to the coordinator for having missed the test**, then the other term test will automatically be worth 50% of your final mark.

[b] The dates of the term tests and final exam will not yet be known at the beginning of term, but these dates will be announced in class and on the course page (Blackboard) as soon as they are known. Please note that these tests and exam may be scheduled for an evening or on a Saturday.

Test and exam format

The tests and exam will include a mixture of question types including multiple choice, short answer, matching, drawing or labeling of diagrams, drawing, labeling and/or interpreting graphed data etc.

Material to be tested

You will be tested on the topics and material that is presented in class. All lecture and tutorial slides and handouts will be posted on Blackboard and should be considered your master outline of the topics and material presented. The lectures and tutorials are largely based on material in the required text so the text is an important resource to help you develop your understanding of the material presented in class.

Course Lecture Topics (in their order of presentation)	Key Textbook Chapters
Section I Unique features of the plant body and the plant cell	Selective coverage of Chapter 1 (plus tutorial 1 material)
Section II Biochemical and physiological aspects of photosynthesis	Selective coverage of Chapters 7,8,9 (plus tutorial 3 material)
Section III Water, mineral nutrients, and products of photosynthesis: acquisition, assimilation and transport	Selective coverage of Chapters 3,4,6,18,12,10
Section IV Plant growth and cell walls	Selective coverage of Chapter 15
Section V Plant photobiology	Selective coverage of Chapter 17
Section VI Coordination of growth, development and stress acclimation by plant hormones	Selective coverage of Chapter 19

	Topic
Tutorial 1	Plant structure
Tutorial 2	**Review** session
Tutorial 3	Photorespiration and CO_2-concentrating mechanisms
Tutorial 4	**Review** session