

10. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under Section K. Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf.
- Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email addy@ucalgary.ca or phone 403 220-3140.
- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suvpaca@ucalgary.ca
SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
Student Ombuds Office: 403 220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.

Department Approval _____ ORIGINAL SIGNED _____ Date _____

PLBI 401 co W16; 12/18/2015 11:52 AM

UNIVERSITY OF CALGARY
DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE
PLANT BIOLOGY 401
PLANT BIOTECHNOLOGY

TERM: Winter 2016 SECTION NO: 01

PREREQUISITES: Biology 331 and one of Biochemistry 341 or 393

NOTE: A student may not register in a course unless she/he has a grade of at least C- in each prerequisite course.

LECTURER(S): Dr. D. Muench BI 397

LECTURES: MWF 11:00-11:50 MLT 118

RESERVE READING ROOM: Materials relevant to the course may be placed in the Reserve Reading Room. You will be notified when such materials are deposited.

MARK DISTRIBUTION: A. Composition of Final Grade

Assignment	10%	
Midterm	30%	(February 29, 2016, 11:00 am – 11:50 pm; In-Class)
Term paper	25%	
Debate	5%	
Final Examination	30%	

B. Final Exam

There will be a final examination scheduled by the Registrar's Office.

DEFERRALS:

Deferrals of term work (including the mid-term exam): Any deferrals of term work will be arranged by the student in consultation with the lecturer for that section of the course. Deferrals will be allowed only for legitimate conflicts. Please see http://www.ucalgary.ca/registrar/exam_info .. Students should read the Attendance section in the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/e-3.html> . Students will be expected to attend examinations on the day and at the time indicated in the course outline if they have no legitimate conflicts. Medical difficulties that lead to the missing of term work will require a written excuse from an M.D. Such medical excuse forms should be provided to the course coordinator as soon as possible upon the student's return to University.

GRADING SCALE:

A+	>90%
A	85%
A-	80%
B+	77%
B	73%
B-	70%
C+	67%
C	63%
C-	60%
D+	55%
D	50%
F	<50%

TENTATIVE LECTURE SCHEDULE

<u>Date</u>	<u>Topic</u>
January 11	Introduction to Plant Biotechnology
January 13	Breeding and Cultivar Development
January 15	Plant Biotechnology – technological advances
January 18	Plant Tissue Culture I
January 20	Plant Tissue Culture II
January 22	Plant Genomes I
January 25	Plant Genomes II
January 27	Gene Structure and Regulation I
January 29	Gene Structure and Regulation II
February 1	Post-transcriptional Gene Regulation I
February 3	Post-transcriptional Gene Regulation II
February 5	Functional Genomics I
February 8	Functional Genomics II
February 10	RNA Profiling
February 12	Protein Profiling
February 15-19	READING WEEK
February 22	Metabolic Profiling
February 24	Plant Genetic Transformation I
February 26	Plant Genetic Transformation II
February 29	In-class Midterm Exam (11:00 am – 11:50 pm)
March 2	Debate preparation
March 4	The Chloroplast and Mitochondrial Genomes
March 7	Herbicide Resistance
March 9	The Great Debate: Genetically Modified Crops I
March 11	The Great Debate: Genetically Modified Crops II
March 14	The Great Debate: Genetically Modified Crops III
March 16	The Great Debate: Genetically Modified Crops IV
March 18	Insect Resistance
March 21	Disease Resistance
March 23	Expression of Recombinant Proteins
March 25	GOOD FRIDAY
March 28	Lipid Modification
March 30	Modification of Starch Quality and Quantity I
April 1	Modification of Starch Quality and Quantity II
April 4	Engineering of Male Sterility and Hybrid Seed Production I
April 6	Engineering of Male Sterility and Hybrid Seed Production II
April 8	Plant Bioplastics
April 11	Molecular Mechanisms of Phytoremediation
April 13	Intellectual Property and Patenting