



BIOLOGY 836 SYLLABUS

COURSE TITLE:	Advanced Plant Physiology		
COURSE CODE:	22100	TERM:	2022 Winter
COURSE CREDITS:	3	DELIVERY:	Lecture (Classroom)
CLASS SECTION:	1	START DATE:	Jan 10, 2022
CLASS LOCATION:	Health Science Building B443	LAB LOCATION:	N/A
CLASS TIME:	Thursday 1:00 PM – 3:50 PM		
WEBSITE:			

Course Description

Selected topics dealing with recent advances in plant physiology.

Prerequisites

BIOL 331 or permission of the instructor

Learning Outcomes

Students will explore various plant physiological processes and how they drive plant growth and development. Students will improve their presentation and teaching skills as they take turns presenting topics from recently published literatures.

Course Overview

Students will participate in the presentations and demonstrate basic and advanced level of knowledge in plant physiology.

This is an in-depth course on plant physiology. The course will cover topics which illustrate the current progress and applicable potentials in plant physiology; students will be expected to read literatures associated with assigned topics and learn the advanced molecular basis of plant physiological processes. The course will assign topics for students to present in the class time. Student will be expected to develop skills of critical thinking and problem solving in the fields of plant biology. And students will also learn to combine various information from different aspects of plant physiological processes to answer broadly based questions.

Class Schedule

TBD; Two lectures (January 14 and 21) will be delivered remotely and others should be in-person classes.

Midterm and Final Examination Scheduling

There will be no midterm but a take home final exam due 3 days after the student picks it up from the instructor.

Required Resources

All literatures can be searched through the PubMed and the ISI Web of Knowledge.

Grading Scheme

Student presentation	40%
Take home final exam (Essay)	40%
Class Participation	20%
Total	100%

Evaluation Components

Presentations

Value: 40% of final grade

Length: 50 minutes for each presentation

Description: Presentations on the assigned/selected literatures.

Assessment criteria: All students must give all required presentations. Clarity of oral and visual components, demonstrates understanding of topic, and answers questions effectively. Students will be expected to give 2 times presentations (20% of final grade for each presentation) during this course. Students should send their slide files to the instructor after presentation.

Presentation Rubric for Biol 836 - Winter 2022

	Sophisticated (4)	Competent (2-3)	Insufficient (1)
Presentation slides are well prepared (slides include clear information for audience to easily read and understand topics; sufficient introductory materials are provided to audience).			
Presentation is logically organized through the topic.			

Students explain concepts clearly for the class members to understand topics.			
Speed of presentation is well paced and speakers interact with the audience.			
Students prepare well to answer questions from audience, related to the topic.			

Take home final exam

Value: 40% of final grade

Length: Max. 4 pages

Description: Writing a term-paper on the assigned/selected topic.

Assessment criteria: All students must submit term-papers which describe the assigned/selected topics; Students select a recently published literatures, related to assigned topics, and summarize the literature with suggested outlines (see below). Topics will be assigned to students, based on their majors.

Suggested outline:

1. Abstract:

Give a description of the major concepts, approaches, and significance of the selected literature.

2. Introduction:

Address;

- (1) Importance of topics in their major
- (2) Background for the selected topics
- (3) Reason to choose the topics
- (4) Purpose of the research in the fields of the selected topics (research goal for the selected literature)

3. Summary of results:

Students describe the detail of the studies, methodology, interpretation. And students also indicate criticism on the results.

4. Conclusion:

Summarize and evaluate the selected literatures. Evaluate the quality of results which reveal the conclusion. Students also are encouraged to identify possible future studies in this section.

Class participation

Value: 20% of final grade

Description: Be actively involved in discussions during student presentation

Assessment criteria: Students must read literatures, which will be presented in the course, before attending the class and actively participate in discussion.

Class participation Rubric for Biol 836 - Winter 2022

	Satisfactory (9-10)	Needs development (4-8)	Unsatisfactory (1-3)
Students actively ask questions.			
Students productively contribute to ongoing discussion.			

Late Assignments

Late presentations or turning in of the final exam will not be accepted except under exceptional circumstances

Criteria That Must Be Met to Pass

Get 60% for MSc and 70% for PhD students or higher.

Attendance Expectations

Attendance is mandatory in this course, but permission of instructor can be given under the conditions. Absence without permission will cause 10% deduction of final grade for each missing class.

Instructor Information

Contact Information

966-4439; byungkook-brian.ham@usask.ca

Office Hours

By appointment.

Integrity Defined (from the Office of the University Secretary)

The University of Saskatchewan is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Student Conduct & Appeals section of the University Secretary Website and avoid any behavior that could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

All students should read and be familiar with the Regulations on Academic Student Misconduct (http://www.usask.ca/university_secretary/honesty/StudentAcademicMisconduct.pdf) as well as the Standard of Student Conduct in Non-Academic Matters and Procedures for Resolution of Complaints and Appeals (http://www.usask.ca/university_secretary/honesty/StudentNon-AcademicMisconduct2012.pdf)

For more information on what academic integrity means for students see the Student Conduct & Appeals section of the University Secretary Website at:

http://www.usask.ca/university_secretary/pdf/dishonesty_info_sheet.pdf

Examinations with Access and Equity Services (AES)

Students who have disabilities (learning, medical, physical, or mental health) are strongly encouraged to register with Access and Equity Services (AES) if they have not already done so. Students who suspect they may have disabilities should contact AES for advice and referrals. In order to access AES programs and supports, students must follow AES policy and procedures. For more information, check www.students.usask.ca/aes, or contact AES at 306-966-7273 or aes@usask.ca. Students registered with AES may request alternative arrangements for mid-term and final examinations. Students must arrange such accommodations through AES by the stated deadlines. Instructors shall provide the examinations for students who are being accommodated by the deadlines established by AES.

Student Supports

Student Learning Services

Student Learning Services (SLS) offers assistance to U of S undergrad and graduate students. For information on specific services, please see the SLS web site <http://library.usask.ca/studentlearning/>.

Student and Enrolment Services Division

The Student and Enrolment Services Division (SESD) focuses on providing developmental and support services and programs to students and the university community. For more information, see the students' web site <http://students.usask.ca>.

Aboriginal Students Centre

The Aboriginal Students Centre (ASC) is dedicated to supporting Aboriginal student academic and personal success. The centre offers personal, social, cultural and some academic supports to Métis, First Nations, and Inuit students. The centre is also dedicated to intercultural education, bringing Aboriginal and non-Aboriginal students together to learn from, with and about one another in a respectful, inclusive and safe environment. Students are encouraged to visit the ASC's Facebook page (<https://www.facebook.com/aboriginalstudentscentre/>) to learn more.

International Student and Study Abroad Centre

The International Student and Study Abroad Centre (ISSAC) supports student success in their international education experiences at the U of S and abroad. ISSAC is here to assist all international undergraduate, graduate, exchange and English as a Second Language students and their families in their transition to the U of S and Saskatoon. ISSAC offers advising and support on all matters that affect international students and their families and on all matters related to studying abroad. Please visit students.usask.ca for more information.