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Syllabus

**PLNT 7120: Special Problems in Plant Sciences: Plant
Growth and Development Impacts on Herbaceous Perennial
Forage Quality, Biomass and/or Seed Production.**

(Fall, 2020)



Faculty of

UNIVERSITY
OF MANITOBA

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COURSE DETAILS

Course Title & Number:	PLNT 7120: Special Problems in Plant Sciences
Number of Credit Hours:	3
Class Times & Days of Week:	Times to be determined (tbd), 1 time per week
Location for classes/labs/tutorials:	tbd
Pre-Requisites:	none

Instructor Contact Information

Instructor(s) Name & Preferred Form of Address:	Dr. D.J. Cattani, Doug
Office Location:	Room 105 Agriculture
Office Hours or Availability:	Appointments may be made for student consultations either after class or by email.
Office Phone No.	204 474-6071
Email:	Doug.Cattani@umanitoba.ca An attempt will be made to respond to all communications within 24 hours of receipt.
Contact:	Contact by email, phone or in-person are acceptable

Course Description

U of M Course Calendar Description

In this area duplicate the content from the U of M course catalogue. It provides continuity for the students who choose to take your course based on the description they read in the calendar. Also, add in any explicit or implicit requirements for the course.

General Course Description

Application of growth and development of herbaceous perennial species, as well as annual species, on the quality and quantity of forage produced for animal intake, biomass production and/or seed productivity. Emphasis will be placed upon the manipulation of plant growth to provide forage (annual or perennial) for a given animal production system (e.g. beef production, dairy production) and biomass production and/or seed production of herbaceous perennial species. A detailed understanding of growth and development of herbaceous perennial plants, including an understanding of the use of growth scales to aid in the assessment of plant stand characteristics as they relate to vegetative and reproductive quantity and quality. A discussion of agronomic practices that may be utilized to affect plant growth and development including fertilization, haying, grazing and other cultural practices will be entered upon.

Course Goals

To understand plant growth and development and how it can be applied to construct an effective feeding program, or a component of a system for animal production, for perennial biomass production and for seed production of herbaceous perennial species.

Course Learning Objectives

To acquire knowledge of plant growth and development to utilize in a bovine feeding system:

- 1) Interspecific differences in growth and development;
- 2) Intraspecific (cultivar or varietal) differences and how they may be utilized to fit production systems.
- 3) Plant development and quality characteristics for biomass quantity, quality and utilization.
- 4) Growth and development scales for quantification of development stage and its relationship to biomass quality.
- 5) Utilization of agronomic practices to manipulate plant development for herbaceous perennial production in an animal feeding regime.
- 6) Impact of phenological development and the impact on end-use (forage, feed, food and fibre).
- 7) Development of methodological parameters to capture phenological development stages.

Textbook, Readings, and Course Materials

Students will be provided papers to read prior to the class which will be discussed with respect to their applicability to the course objectives. Students will bring questions to class to ask with respect to the assigned papers.

Using Copyrighted Material

Include a statement about copyrighted material.

Example: Please respect copyright. We will use copyrighted content in this course. I have ensured that the content I use is appropriately acknowledged and is copied in accordance with copyright laws and university guidelines. Copyrighted works, including those created by me, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM Learn), or any website, unless an exception to the *Copyright Act* applies or written permission has been confirmed. For more information, see the University's Copyright Office website at <http://umanitoba.ca/copyright/> or contact um_copyright@umanitoba.ca.

Course Technology

There are no specific issues with hardware or software and this course. Muting of all other media with the exception of the method used to attend class to reduce disturbances during class.

Expectations: I Expect You To

I will treat you with respect and would appreciate the same courtesy in return. See Respectful Work and Learning Environment Policy.

At the end of this section, the policies and services students are expected to follow/utilize need to be included (Section 2.5 ROASS).

I expect you to follow these policies around Class Communication, Academic Integrity, and Recording Class Lectures.

Class Communication:

You are required to obtain and use your University of Manitoba email account for all communication between yourself and the university. All communication must comply with the Electronic Communication with Student Policy: http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html.

Academic Integrity:

Each student in this course is expected to abide by the University of Manitoba Academic Integrity principles. Always remember to reference the work of others that you have used. Also be advised that you are required to complete your assignments independently unless otherwise specified. If you are encouraged to work in a team, ensure that your project complies with the academic integrity regulations. You must do your own work during exams. Inappropriate collaborative behavior and violation of other Academic Integrity principles, will lead to the serious disciplinary action. Visit the Academic Calendar, Student Advocacy, and Academic Integrity web pages for more information and support.

Where applicable:

Group projects are subject to the rules of academic dishonesty;

Group members must ensure that a group project adheres to the principles of academic integrity;

Students should also be made aware of any specific instructions concerning study groups and individual assignments;

The limits of collaboration on assignments should be defined as explicitly as possible; and

All work should be completed independently unless otherwise specified.

Recording Class Lectures:

No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission {Douglas Cattani}. Course materials (both paper and digital) are for the participant's private study and research. Synchronous classes will be recorded and may be accessed through UMLearn.

Student Accessibility Services:

The University of Manitoba is committed to providing an accessible academic community. Students Accessibility Services (SAS) offers academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services
 520 University Centre
 Phone: (204) 474-7423
 Email: Student_accessibility@umanitoba.ca.

Expectations: You Can Expect Me To

I will start class 5 minutes earlier and stay on for 5 minutes to allow for questions (synchronous classes).

I will attempt to answer email enquiries as soon as possible but always within 48 hours.

I will attempt to post an outline for synchronous lectures the morning of the lecture. using a variety of teaching strategies to facilitate student learning?

CLASS SCHEDULE AND COURSE EVALUATION

This schedule is subject to change at the discretion of the instructor and/or based on the learning needs of the students but such changes are subject to [Section 2.8 of ROASS](#).

Classes will be held via Cisco Webex through UMLearn on Wednesdays from 1:30-3:00 PM.

Evaluation:

Method	%
Term Paper Draft (October 21, 2019)	15%
Term paper final: (December 11, 2019)	40%
Discussion/Participation	10%
Class presentations (3)	35%
consisting of:	
Journal Paper 1 @	5%
Journal Paper 2 @	10%
Term paper @	20%
 Total	<hr/> 100%

Lab Expectations

You can also identify your expectations for student behaviour in the lab, handling the equipment in the lab, communication with the lab TA, etc. Also indicate if they are required to have completed any safety training before they use the lab (i.e., WHMIS) and where they can obtain the training.

Lab Schedule

Grading

Indicate your grading scale. A sample is given below that you can adjust to your course expectations.

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	95-100	4.25-4.5	4.5
A	86-94	3.75-4.24	4.0
B+	80-85	3.25-3.74	3.5
B	72-79	2.75-3.24	3.0
C+	65-71	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Voluntary Withdrawal

In this area indicate the last day to drop the class and receive 100% refund and the last day to withdraw with no refund. Make a note that students who did not drop the course by the deadline would be assigned a final grade. Point out that the withdrawal courses will be recorded on official transcript. Ask students to refer to the [Registrar's Office](#) web page for more information. Also identify if you are willing to discuss student's progress and strategies for improvement prior the withdrawal date.

ASSIGNMENT DESCRIPTIONS

It is recommended that the syllabus contain the details for all of the assignments in your course. However, if the details are not provided, a statement must be included in the syllabus of whether assignment instructions, grading rules, or rubrics will be provided ([Section 2.5 ROASS](#)).

Clearly describe the nature of the assignment or assessment strategy (e.g., paper, group project, critique, précis, etc.). The syllabus can be the resource for understanding what you expect out of the assignment from the students. This also includes tests, exams. (e.g., will the exam cover the entire semester? Do you focus on major concepts? Does it include all materials covered in class including videos and guest speakers?). Link assessments to the relevant course goals and learning objectives using a numbering system or narrative explanation. A suggestion is to organize the assignment description as follows:

TITLE: (i.e., Mid-term scholarly paper)

GOAL: How is this assignment going to evaluate the learning objectives for this course? (i.e., Course Objectives 1-3 & Unit 1-3).

PROCEDURE: What are acceptable sources and how to find them? How should the assignment be organized? Formatting of the assignment – APA, MLA, other styles?

SUBMISSION GUIDELINES: Do you want the paper uploaded to UM Learn, emailed, a print copy, etc. How, when and where?

EVALUATION CRITERIA: Include your marking rubric. Consult the [Centre For The Advancement Of Teaching & Learning](#) for assistance in developing rubrics.

Referencing Style

Be very explicit about the referencing style you require. Then provide students with resources to learn the style (i.e., Zotero; library has workshops; library has print resources with examples).

Example: Assignments should use the APA reference style as outlined in the text: American Psychological Association. (2009). Publication manual of the American Psychological Association (6th ed.). Washington, DC: Author.

Assignment Feedback

In this section, explain what form of feedback you will provide to students: formative (i.e., comments) or summative (i.e., grade). Indicate the method in which your feedback will be delivered (i.e., via paper or electronically). Additionally, indicate to the students when they can expect to receive their graded assignments. It is recommended that students receive a sufficient percentage of their final grade prior to the Voluntary Withdrawal date, which will allow students to make a decision about completing or withdrawing from the course.

Assignment Extension and Late Submission Policy

Clearly describe your policies. How strict is your assignment submission date and time? Is today's date up until midnight? If there is a time, how is it monitored? (i.e., student submits assignments to support staff who date stamp them, UM Learn submission which automatically date stamps them). Can they be late with their assignments? If so, how late is too late? Is there a late penalty? Is it enforceable? Do all assignments need to be submitted to pass the course? Etc.

UNIVERSITY SUPPORT OFFICES & POLICIES

Instructors shall provide to every student the information on university support offices and policies in [Schedule "A"](#) within the first week of classes, either through a paper copy and/or via the university's student information system (i.e., Aurora, UM Learn, or such other university information system as may be approved by the university from time to time).

Schedule "A"

Section (a) sample re: A list of academic supports available to Students, such as the Academic Learning Centre, Libraries, and other supports as may be appropriate:

Writing and Learning Support

The Academic Learning Centre (ALC) offers services that may be helpful to you throughout your academic program. Through the ALC, you can meet with a learning specialist to discuss concerns such as time management, learning strategies, and test-taking strategies. The ALC also offers peer supported study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In these study groups, students have opportunities to ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

You can also meet one-to-one with a writing tutor who can give you feedback at any stage of the writing process, whether you are just beginning to work on a written assignment or already have a draft. If you are interested in meeting with a writing tutor, reserve your appointment two to three days in advance of the time you would like to meet. Also, plan to meet with a writing tutor a few days before your paper is due so that you have time to work with the tutor's feedback.

These Academic Learning Centre services are free for U of M students. For more information, please visit the Academic Learning Centre website at: <http://umanitoba.ca/student/academiclearning/>

You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 205 Tier Building.

University of Manitoba Libraries (UML)

As the primary contact for all research needs, your liaison librarian can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you may have, regarding the research process. Liaisons can be contacted by email or phone, and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject: <http://bit.ly/WcEbA1> or name: <http://bit.ly/1tJ0bB4>. In addition, general library assistance is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage: www.umanitoba.ca/libraries.

Section (b) sample: re: A statement regarding mental health that includes referral information:

For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.

Student Counselling Centre

Contact SCC if you are concerned about any aspect of your mental health, including anxiety, stress, or depression, or for help with relationships or other life concerns. SCC offers crisis services as well as individual, couple, and group counselling. *Student Counselling Centre:*

<http://umanitoba.ca/student/counselling/index.html>

474 University Centre or S207 Medical Services

(204) 474-8592

Student Support Case Management

Contact the Student Support Case Management team if you are concerned about yourself or another student and don't know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team.

Student Support Intake Assistant <http://umanitoba.ca/student/case-manager/index.html>

520 University Centre

(204) 474-7423

University Health Service

Contact UHS for any medical concerns, including mental health problems. UHS offers a full range of medical services to students, including psychiatric consultation.

University Health Service <http://umanitoba.ca/student/health/>

104 University Centre, Fort Garry Campus

(204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness

Contact our Health and Wellness Educator if you are interested in information on a broad range of health topics, including physical and mental health concerns, alcohol and substance use harms, and sexual assault.

Health and Wellness Educator <http://umanitoba.ca/student/health-wellness/welcome.html>

Katie.Kutryk@umanitoba.ca

469 University Centre

(204) 295-9032

Live Well @ UofM

For comprehensive information about the full range of health and wellness resources available on campus, visit the Live Well @ UofM site:

<http://umanitoba.ca/student/livewell/index.html>

Section (c) sample: re: A notice with respect to copyright:

All students are required to respect copyright as per Canada's *Copyright Act*. Staff and students play a key role in the University's copyright compliance as we balance user rights for educational purposes with the rights of content creators from around the world. The Copyright Office provides copyright resources and support for all members of the University of Manitoba community. Visit <http://umanitoba.ca/copyright> for more information.

Section (d) sample: re: A statement directing the student to University and Unit policies, procedures, and supplemental information available on-line:

Your rights and responsibilities

As a student of the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.

The [Academic Calendar](http://umanitoba.ca/student/records/academiccalendar.html) <http://umanitoba.ca/student/records/academiccalendar.html> is one important source of information. View the sections *University Policies and Procedures* and *General Academic Regulations*.

While all of the information contained in these two sections is important, the following information is highlighted.

- If you have questions about your grades, talk to your instructor. There is a process for

term work and final **grade appeals**. Note that you have the right to access your final examination scripts. See the Registrar's Office website for more information including appeal deadline dates and the appeal form <http://umanitoba.ca/registrar/>

- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the **Academic Integrity** regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support <http://umanitoba.ca/academicintegrity/> View the **Student Academic Misconduct** procedure for more information.
- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected to conduct yourself in an appropriate respectful manner. Policies governing behavior include the:

Respectful Work and Learning Environment

http://umanitoba.ca/admin/governance/governing_documents/community/230.html

Student Discipline

http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html and,

Violent or Threatening Behaviour

http://umanitoba.ca/admin/governance/governing_documents/community/669.html

- If you experience **Sexual Assault** or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The **Sexual Assault** policy may be found at:
http://umanitoba.ca/admin/governance/governing_documents/community/230.html
More information and resources can be found by reviewing the Sexual Assault site <http://umanitoba.ca/student/sexual-assault/>
- For information about rights and responsibilities regarding **Intellectual Property** view the policy http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy_-_2013_10_01.pdf

For information on regulations that are specific to your academic program, read the section in the Academic Calendar and on the respective faculty/college/school web site

<http://umanitoba.ca/faculties/>

Contact an **Academic Advisor** within our faculty/college or school for questions about your academic program and regulations <http://umanitoba.ca/academic-advisors/>

Student Advocacy

Contact Student Advocacy if you want to know more about your rights and responsibilities as a student, have questions about policies and procedures, and/or want support in dealing with academic or discipline concerns.

<http://umanitoba.ca/student/advocacy/>

520 University Centre

204 474 7423

student_advocacy@umanitoba.ca