Syllabus

PLNT 4590: Physiology of Crop Plants

(Winter 2023)
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COURSE DETAILS

Course Title & Number: PLNT 4590: Physiology of Crop Plants
Number of Credit Hours: 3
Class Times & Days of Week: Lecture Hours: 12:30 - 1:20 pm (MWF)
                       Laboratory Hours: 2:30 - 5:25 pm (W)
Location for classes/labs/tutorials: Lecture Location: Room 134, Agriculture Building
                       Laboratory Location: Room 318, Ellis Building
Pre-Requisites: BIOL 2242 or consent of instructor. Have the knowledge of the structure and function of the flowering plants. Moreover, basic knowledge in crop science and soil science is desirable.

Instructor Contact Information

Instructor(s) Name & Preferred Form of Address: Dr. Shuanglong Huang (I prefer to be addressed as “Shuanglong”)
Office Location: Room 326 Agriculture Building
Office Hours or Availability: 11:00 - 12:30 pm (Thursdays); otherwise, available by appointment only. I can be reached preferably by email, and will reply to your emails within 24 hours.
Note: The Responsibilities of Academic Staff in Regards to Students - ROASS requires that instructors must be available to students for consultation out of class or laboratory hours.

Office Phone No. 204-474-6563
Email: shuanglong.huang@umanitoba.ca
Note: All email communication must conform to the Communicating with Students university policy.

Contact: Please feel free to email or talk to me for appointment.
Note: How you frame this sets the tone for your relationship with your students.

Lab Teaching Assistant: Ms. Ginelle Grenier
Office Location: Room 147A Agriculture Building
Course Description

U of M Course Calendar Description
Concepts dealing with the physiological response of crop plants to the environment from the time of seed germination through to reproduction.

General Course Description
Crop physiology is an integrative course that builds on and applies the conceptual and technical information presented in the foundation courses from a variety of disciplines including plant physiology, crop production, soil science, botany and ecology to further enhance students’ capabilities to bear on problems of yield improvement and crop management, and undertake graduate studies in preparation for advanced research and teaching positions.

This course is designed to help students integrate and better understand crop growth, development and yield from a perspective of whole plant physiology. In this course, students will gain an overview of crop physiological processes that are necessary to understand how plants operate, and interact with their environment. The course is useful to understand and interpret agronomic phenomena contributing to crop yield. It also offers an opportunity to survey contemporary aspects of crop physiology with emphasis on recent research progress in related fields.

Instructional Methods and Course Goals

Instructional Methods: This course will consist of lectures (with the aid of PowerPoint presentations) and obligatory laboratory work. The lectures are designed to orient students with the conceptual information in the text and current topics in the subject. At the beginning of each class, you will be provided with copies of the PowerPoint slides for each lecture. The laboratory part of the course will provide hands-on opportunities in structured labs and independent investigations.

Course Goals: The aim of this course is to give students a greater understanding of the physiological processes, plant responses and environmental factors affecting growth and productivity of the agricultural crops we depend on, and to stimulate students’ learning of basic concepts in crop growth and development. The course is also designed to enable students to use the knowledge of crop physiology to answer practical questions. Basic concepts underlying crop physiology will be demonstrated through laboratory exercises. Specific objectives of this course will be to:
1. Describe in detail the physiology and biochemistry of crop seed germination and dormancy;
2. Examine the physiological aspects of crop growth and phenological development;
3. Define and analyze the mechanisms by which crop plants acquire and utilize resources like carbon, water, light and mineral nutrients;
4. Discuss the concepts of assimilate translocation and partitioning in a crop plant;
5. Examine the physiology of crop adaptation to their environment;
6. Review the physiological basis for crop production and management practices; and
7. Develop critical thinking and problem solving skills with respect to crop physiology.
Course Learning Objectives

This course has considerable value to students in the field of agricultural science including agronomy, crop management, plant breeding and plant biotechnology. As it extensively covers theoretical and practical aspects of crop physiological processes and crop-environment interaction, the course is also of interest for students of applied ecology and environmental science, with the following learning objectives.

1. Distinguish key physiological processes underlying the formation of seedlings from seed embryos;
2. Identify the physiological factors that regulate growth and developmental processes of crop plants, and clearly define their roles;
3. Evaluate the different strategies used by plants to acquire and utilize resources, and formulate a logical argument of their impact on crop productivity;
4. Recognize the significance of assimilate translocation and patterns of its partitioning in determining crop yield;
5. Demonstrate clear understanding of crop-environment interaction and its implication on crop growth and yield;
6. Relate crop physiological processes with agronomic practices used in crop production systems; and
7. Integrate and apply their knowledge of crop physiology for analytical thinking and solving practical problems experienced in agricultural systems.

Textbook, Readings, and Course Materials

Required Textbook


Supplementary Reading

Though the textbook provides reasonable coverage for most of the topics in the course, it is not either sufficiently detailed or does not cover some of the topics to be discussed in this course. To supplement the shortfalls, please refer to selected chapters from the following books, a copy of which will be held in reserve at the William R. Newman (Agriculture) library.


Additional Materials

Any other supplementary reading materials will be posted on Desire2Learn (D2L) website (https://universityofmanitoba.desire2learn.com/d2l/login), and/or you will be notified of any updates by email from your instructor.
Using Copyrighted Material

Please respect copyright. We 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

It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. The student can use all technology in classroom setting only for educational purposes approved by instructor and/or the University of Manitoba Disability Services. Student should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline “gaming” during scheduled class time. If student is on call (emergency) the student should switch his/her cell phone on vibrate mode and leave the classroom before using it. ©S Kondrashov. Used with permission.

Expectations: I Expect You To

Attend Lecture Class: Most important course materials are discussed in the lecture, thus successful completion of this course requires that students attend all classes, and they are also expected to arrive in good time for all these meetings and to take notes during the class. Missing a class will make understanding of materials presented in subsequent sessions difficult. Students should refrain from any disruptive behaviors during class time, otherwise will be asked to leave the class. iClicker will be used to assist with class attendance.

Participate: It is essential that students actively engage in class discussions (e.g. actively listening, posing and responding to questions) and group efforts. iClicker will also be used in the classroom allowing students to participate in polls and answer questions during class. Your class participation will be critical in swaying my decision in borderline grading situations.

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

Use of Third Party Detection and Submission Tools: Electronic detection tools may be used to screen assignments in cases of suspected plagiarism.

I expect you to follow these policies around Class Communication, Academic Integrity, and Recording Class Lectures (Section 2.5 ROASS).

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.

Refer to specific course requirements for academic integrity for individual and group work such as:

I. Group projects are subject to the rules of academic dishonesty;
II. Group members must ensure that a group project adheres to the principles of academic integrity;
III. Students should also be made aware of any specific instructions concerning study groups and individual assignments;
IV. The limits of collaboration on assignments should be defined as explicitly as possible; and
V. 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 from the instructor. Course materials (both paper and digital) are for the participant’s private study and research.

**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

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**Expectations: You Can Expect Me To**
I will be in class before or on time. My teaching practice involves the use of questions in class. I expect students to respond but I do not expect perfection.

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**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](#).
# Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Class Content</th>
</tr>
</thead>
</table>
| **Week 1-2** | **1. Seed Physiology**  
- Seed structure and its composition  
- Seed storage reserves: the energy to fuel early seedling growth  
- Seed imbibition and germination: the transition of seed embryo into a seedling  
- Metabolic and cellular events during germination  
- Physiology of seed dormancy: deciding to germinate or not to germinate  
- Mobilization of storage reserves and its control |
| **Week 2-4** | **2. Crop growth and phenological development**  
- Seedling emergence: phasing out dependence on storage reserves  
- The role of cell division in crop development  
- Cell walls and elongation: plant tissues plasticity and elasticity  
- Root formation, development and its regulation  
- Shoot formation and its development |
| **Week 4-6** | **3. Crop canopy, photosynthesis and respiration**  
- The life history of a leaf: why it is important?  
- Components of plant leaf area expansion  
- Leaf anatomy and its role in light interception  
- The development of crop canopy: leaf area index  
- Canopy architecture and light penetration  
- Photosynthesis and photorespiration  
- Photosynthetic response to temperature and CO₂: the greenhouse effect  
- Crop respiration at the field, crop and canopy level |
| **Week 7** | Winter Term Break |
| **Week 8-9** | **4. Mineral nutrition of crops**  
- Essential nutrients and crop growth response  
- Nitrogen assimilation  
- Biological nitrogen fixation and its regulation  
- Phosphate assimilation |
| **Week 9-10** | **5. The physiology of flowering in crop plants**  
- Floral meristems and floral organ development  
- Floral evocation: the endogenous and exogenous cues  
- Biochemical signaling involved in crop flowering |
| **Week 10-12** | **6. Seed development and pre- and post-harvest physiology**  
- Embryogenesis and seed formation: the making of next generation plants  
- Assimilate translocation: pathways and patterns  
- Assimilate partitioning and remobilization: source-sink interaction  
- Deposition of storage reserves, seed maturation and desiccation  
- Physiology of pre-harvest sprouting: why seeds germinate on the parent plant?  
- Seed storage and seed longevity: what is wrong with aged seeds? |
| **Week 12-14** | **7. Crop stress physiology**  
- Flooding and hypoxic stress: the suffocation of plant tissues  
- Water deficit and drought tolerance  
- Temperature stress: the heat, the chill and the freeze  
- Salinity stress: the salt injury |
Course Evaluation Methods

Exams, assignments and lab reports will be returned to you after they are marked or graded, except for the final exam. I try to get all your work graded and give you feedback within 10 working days after submission/completion. Evaluative feedback from the first assignment and midterm examination, in the form of numerical marks, will be provided prior to the deadline for voluntary withdrawal (see Important Dates below). Your final grade will be determined by the following.

<table>
<thead>
<tr>
<th>Components</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-Term Exam: one hour examination</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam: two and half hour final examination</td>
<td>30%</td>
</tr>
<tr>
<td>Participation in discussions / class attendance</td>
<td>5%</td>
</tr>
<tr>
<td>Quizzes / Take Home Exam</td>
<td>5%</td>
</tr>
<tr>
<td>Practical Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Description of Examinations

There will be one mid-term exam and a final comprehensive exam. The mid-term exam will cover mainly the lectures and reading materials covered prior to the exam, whereas for the final exam you should expect the coverage of some cumulative information garnered throughout the term. All the exams are designed to evaluate how well you have achieved the learning outcomes of the course, and will consist of a mixture of questions in fill-in-the-blank, short answer, and essay formats. Planned mid-term exam date is indicated in the “Important Dates” section (see below), and is very unlikely to change.

Description of Assignments

A series of two “practical problem solving assignments” with their respective instructions will be given during the term. Each assignment will consist of two short questions designed to apply what you have learned in class to practical "real life" situations experienced in agricultural systems. These are intended to make students think and solve practical problems using their knowledge of crop physiology. All the references (books, articles, lecture handouts, and relevant websites) you may have cited in your assignments should be listed at the end of your assignment. Follow the American Psychological Association (APA) citation style.
## Important Dates

<table>
<thead>
<tr>
<th>Agenda</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>First Day of Class</td>
<td>January 9</td>
</tr>
<tr>
<td>First Assignment Due</td>
<td>February 3</td>
</tr>
<tr>
<td>Mid-Term Exam</td>
<td>February 17</td>
</tr>
<tr>
<td>Winter Term Break</td>
<td>February 21-24</td>
</tr>
<tr>
<td>Voluntary Withdrawal</td>
<td>March 22</td>
</tr>
<tr>
<td>Second Assignment Due</td>
<td>March 24</td>
</tr>
<tr>
<td>Last Day of Class</td>
<td>April 12</td>
</tr>
<tr>
<td>Quizzes / Take Home Exam</td>
<td>TBA</td>
</tr>
<tr>
<td>Final Exam</td>
<td>TBA</td>
</tr>
</tbody>
</table>

## Lab Expectations

**Attend Lab:** Lab attendance is mandatory. Reports will not be accepted if the lab is not attended, unless the student provides acceptable justification and/or documentation as required.

**Group Work Policies:** Regardless of how each lab work is performed (individually or in group); lab reports should be written on an individual basis.

## Lab Schedule

We will have a total of five lab sessions, and the details and instructions for the lab topics, the respective schedules and instructions and due dates for lab reports will be discussed by the TA at the beginning of the term.

<table>
<thead>
<tr>
<th>Lab</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 1</td>
<td>Seed Physiology</td>
</tr>
<tr>
<td>Lab 2</td>
<td>Seedling Emergence</td>
</tr>
<tr>
<td>Lab 3</td>
<td>Mineral Nutrition</td>
</tr>
<tr>
<td>Lab 4</td>
<td>Stress Physiology</td>
</tr>
<tr>
<td>Lab 5</td>
<td>Hormone</td>
</tr>
</tbody>
</table>
Description of Lab Reports

At the start of each lab session, you will be provided with instructions and background information for the concepts to be illustrated. You will receive lab handouts at least a week prior to the date of performing the scheduled experiment. Your lab grade will be determined by your lab reports, and note that the laboratory section of the course must be passed to pass the course. The lab reports should have the following sections:

1. **Title Page** - Include the title of the experiment, your name, course name and number, and date of the experiment;
2. **Introduction** - Include brief background information, the purpose and hypothesis of your experiment;
3. **Materials and Methods** - Describe the materials and experimental procedures or methods used in your experiment;
4. **Results** - Show your data or observation in graphical or tabular format and describe it in words. You must also include additional notes you made during the lab;
5. **Discussion and Conclusion** - Discuss and interpret your results, state if the results support your hypothesis, include any errors and suggestions for improvement, and summarize your experiment; and
6. **Citation** - list all the references (books, articles, lab manuals, relevant websites) you have used at the end of the report. Follow the American Psychological Association (APA) citation style.

**Grading**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage out of 100</th>
<th>Grade Point Range</th>
<th>Final Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
<td>4.25-4.5</td>
<td>4.5</td>
</tr>
<tr>
<td>A</td>
<td>80-89</td>
<td>3.75-4.24</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>75-79</td>
<td>3.25-3.74</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>70-74</td>
<td>2.75-3.24</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>65-69</td>
<td>2.25-2.74</td>
<td>2.5</td>
</tr>
<tr>
<td>C</td>
<td>57-64</td>
<td>2.0-2.24</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>50-56</td>
<td>Less than 2.0</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Less than 50</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**Voluntary Withdrawal**

*March 22, 2023* will be the deadline for Voluntary Withdrawal. Noted students who did not drop the course by the deadline would be assigned a final grade. Withdrawal courses will be recorded on official transcript. Please refer to the [Registrar’s Office](#) web page for more information. The instructor is willing to discuss student’s progress and strategies for improvement prior the withdrawal date.
SUBMISSION AND EXAMINATION POLICIES

Assignment and Lab Report Submission Policy
Assignments and lab reports are due in a week after posting and completion of the lab work, respectively. Assignments are due in the class, whereas lab reports are due in the lab. Assignments and lab reports not submitted by the due date will be penalized 10% of the total value for each day late. Missed assignments will receive a zero grade. If a lab report is missed, an “I” (for incomplete) grade will be assigned to the student.

Early and Missed Examinations
Exams must be written on the scheduled dates. No early exams will be given. A student who misses a midterm exam will automatically receive a grade of zero for that exam. If a final examination is missed, an “F” grade will be assigned to the student. Only students with legitimate excuses/documentation deemed acceptable will be allowed to make up missed exams.

UNIVERSITY SUPPORT OFFICES & POLICIES
The information on university support offices and policies is available in Schedule “A”.

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:

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
S20 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 peer support from Healthy U or 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 https://umanitoba.ca/student/health-wellness/welcome-about.html
britt.harvey@umanitoba.ca
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 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 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 https://umanitoba.ca/governance/sites/governance/files/2021-06/Intellectual_Property_Policy - 2013_10_01 RF.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