# **Syllabus**

# PLNT 3560: Organic Crop Production on the Prairies

(Winter 2024)

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# **COURSE DETAILS**

Course Title & Number:	Organic Crop Production on the Prairies - PLNT 3560 CRN: 50803
Number of Credit Hours:	3
Class Times & Days of Week:	6:00 to 8:30 PM – Mondays;
Location for classes/labs/tutorials:	Class: Room 107 Animal Science. Hands-on research projects: Conservatory greenhouse room 177
Pre-Requisites:	Soil 3600

# **Instructor Contact Information**

Instructor(s) Name	Heather Flood
Office Location:	remote
Office Hours or Availability:	Flexible. Email me for an appointment
Office Phone No.	na
Email:	heather.flood@umanitoba.ca
Contact:	The best way to contact me is by email. We can also talk before and after class.

# **Course Description**

# **U** of **M** Course Calendar Description

This course provides a detailed overview of organic crop production on the Canadian prairies. The course focuses on organic crop production principles and practices, and information is targeted to wet and dry areas of the prairies. The course focuses on both the science and art of organic farming.

# **General Course Description**

Through lectures, responding to student questions, and voices from different people involved in organic crop production in Canada, students will gain a comprehensive perspective of organic crop production. The course will also interest students who want to learn about holistic, systems-based approaches to agriculture. The course will also provide students with practical approaches to improving soil health and teach students about new and exciting weed management strategies. Organic Crop Production on the Prairies is an elective or restricted elective course (depending on which degree stream you are in). It is best taken later in your program when students have completed foundational courses in soils and crops. There will be some new concepts introduced so students are encouraged to engage the instructor for clarification whenever necessary. Asking questions is encouraged, and a great way to learn.

# **Course Goals**

The organic food market is growing rapidly and hence organic agriculture represents an important opportunity for farmers, food processors and marketers. There are approximately 250 certified organic farmers in Manitoba and close to 6000 across Canada. Some Canadian farmers have converted a portion of their farms to certified organic in an effort to capture new markets for traditional crops; learn new ways of enriching soils with nutrients; and learn new ways to manage weeds. Canadian companies are starting to hire organic crop and soil consultants, so training in organic crop production is an asset. Organic methods are increasingly seen as useful for conventional production as well. For example, herbicide resistance management requires that farmers employ alternative weed control methods – methods that have been developed on organic farms and through organic crop production research. Finally, this course is unique because it emphasizes a *systems* or *whole farm* approach to crop production.

# **Course Learning Objectives**

**Course Objectives** - After completing this course, students will:

- Learn the principles and practices of organic crop production in Canada
- Become aware of the scientific basis for organic crop production practices
- Gain insight into the history and philosophy of organic agriculture
- Learn how to design organic crop production systems for Prairie farms, including management of nutrient flows
- Learn from organic farmers about design and maintenance of profitable and productive organic systems
- Conduct hands-on research on soil and weed management in organic farming.

### **Textbook, Readings, and Course Materials**

**Required textbook** – There is no textbook for this course.

**Supplementary readings** – Course notes (word documents), powerpoints and links to videos for each lesson are uploaded onto UM Learn. Lectures are not recorded.

**Recommended or required materials (e.g. lab equipment, art supplies, computers, etc.)** – provided: required for independent study projects.

# **Using Copyrighted Material**

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 <u>http://umanitoba.ca/copyright/</u> or contact <u>um\_copyright@umanitoba.ca</u>.

# **Course Technology**

The course will be offered in person and in combination with Zoom. Students are free to use tablets, cellphones, laptops, etc. in the classroom provided these are used in a responsible, efficient, ethical and legal manner.

# **Expectations: I Expect You To**

All students are expected to review powerpoint and word notes prior to each lesson. All students are expected to participate in class discussions. All students are expected to attend all classes. We will adhere to the UM's respectful work and learning policy See <u>Respectful Work and Learning Environment</u> <u>Policy</u>.

The policies and services students are listed below (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 <u>Academic Integrity</u> <u>principles</u>. 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. Plagiarism, duplicate submission, cheating on

assignments, inappropriate collaboration, academic fraud, and personation are in violation of the Student Discipline Bylaw and will lead to serious <u>disciplinary action</u>. Visit the <u>Academic Calendar</u>, <u>Student Advocacy</u>, and <u>Academic Integrity</u> web pages for more information and support.

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

- I. Students must complete class and lab assignments on their own no collaboration on assignments is allowed; and
- II. All other work should be completed independently unless otherwise specified.

#### **Recording Class Lectures:**

No audio, video, or photographic recording of lectures or presentations is allowed in any format. This material is copyrighted by Heather Flood, 2024. No audio or video recording of this material, lectures, or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission of Heather Flood. Course materials (both paper and digital) are for the participant's private study and research, and must not be shared. Violation of these and other Academic Integrity principles, will lead to serious disciplinary action.

#### **Student Accessibility Services:**

The University of Manitoba is committed to providing an accessible academic community. <u>Students</u> <u>Accessibility Services (SAS)</u> 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 be in class 10 minutes prior to the class time to discuss any questions or comments you may have. I am available to discuss class material and answer questions outside of class time. Please email to make an appointment.

# CLASS SCHEDULE AND COURSE EVALUATION

This course is offered over 13 weeks. Lecture notes for each week are on the UM Learn site for this course. The individual lesson notes are accompanied by the powerpoint slides for that lesson and/or links to videos or any additional resource material (eg., websites, extra readings). All lecture resources are available on UM Learn

Day and class time	Subject	Resources (all material for class is available on course UM learn site)	Instructor/format	Evaluation
January 8 6:00 to 8:30 PM	Introduction to the course and to organic production.	UM learn lecture material	H. Flood In person	In-class participation
January 15 6:00 to 8:30 PM	Organic Agriculture - Systems Approach. Set up Greenhouse Experiments.	UM learn lecture material	H. Flood In person	In-class participation
January 22 6:00 to 8:30 PM	Production practices I. Designing the Organic Cropping System and Nutrient Management. Natural Systems Agriculture - Phosphorus	UM learn lecture material UM learn lecture material	H.Flood In person	Points of greatest interest – reflection
	Greenhouse Experiments.			In-class participation
January 29 6:00 to 8:30 PM	Phosphorus management in organic systems.	In-person class with guest lecturer	Dr. Joanne Thiessen Martens; In person	Points of greatest interest – reflection
	Nitrogen dynamics in intercrops.	UM learn lecture material	H. Flood	
	Greenhouse experiments			In-class participation
February 5 6:00 to 8:30 PM	Student Presentations - International Organics Research Paper Review Greenhouse experiment	In-class student presentations	H. Flood In person	In-class participation

February 12 6:00 to 8:30 PM	Student Presentations - International Organics Research Paper Review Greenhouse experiment	In-class student presentations	H. Flood In person	In-class participation
Feb 26 6:00 to 8:30 PM	Guest Speaker - Organic Businesses in Canada	Brett Israel - 3Gen Organics	H.Flood Propose Online	Points of greatest interest – reflection
	Developing and testing crops and crop varieties for organic production. Participatory plant breeding experiences in Canada	Dr. Michelle Carkner		In-class participation
March 4 6:00 to 8:30 PM	Production practices II. a)Seeding and crop establishment, b)tillage and weed management	UM learn lecture material	H. Flood Propose Online	Points of greatest interest – reflection
	Glenlea Rotation - tillage/weed mgmt	UM learn lecture material		In-class discussion
March 11 6:00 to 8:30 PM	Guest Speaker - Organic Businesses in Canada	ТВА	H. Flood Propose Online	In-class participation
	Production practices III. Weed, insect and disease management	UM learn lecture material		Points of greatest interest – reflection
				*Literature Review Due
March 18 6:00 to 8:30 PM	Production practices IV. Crop-livestock integration.	UM learn lecture material	H.Flood Propose Online	In-class participation
	Production practices V. Soil management.	UM learn lecture material		Points of greatest interest – reflection
March 25 6:00 to 8:30 PM	Organic certification (Will Bailey-Elkin, professional organic certifier)	Guest lecturer Collect final data - Work on projects	H. Flood In person	In-class participation
April 1 6:00 to 8:30 PM	Student presentations- Greenhouse Experiments	In-class student presentations	H. Flood In person	In-class participation
April 8 6:00 to 8:30 PM	Student presentations- Greenhouse Experiments	In-class student presentations	H. Flood In person	In-class participation

Date	Assignments	Evaluation		
		Type of Assessment	Due Date	Value of Final Grade (%)
Throughout the semester	Reflections	6 Reflections worth 3 marks each	Thursday at 11:59 PM (3 days after class)	18
February	International Organics: A Scientific Paper Review	Students will create a powerpoint presentation based on a scientific paper for an international organic crop or crop production system of their choice.	Feb 5 & 12 - In class presentations	15
March	Literature Review	Students will write an essay on a Canadian organic principle, practice, product, system of their choice and with emphasis on research obtained through peer reviewed sources and case studies.	March 11	25
April	Research Projects	<ul> <li>Independent research project. A hands-on greenhouse study.</li> <li>1. Powerpoint of research</li> <li>2. Written report: Introduction; objectives/hypothesis; methods and materials, results, conclusions</li> </ul>	April 1 & 8 - In class presentations April 15 - Final written report	30
Throughout the semester	Participation in class activities	Active listening, participation in discussion, questions, other initiatives	See Class Schedule	12
Total				100

# Grading

Indicate your grading scale. A sample is given below that you can adjust to your course expectations. Note that students must receive a <u>minimum grade of 50% in the lab</u> in order to pass the course.

A+95-1004.25-4.54.5A86-94.93.75-4.244.0B+80-85.93.25-3.743.5B74-79.92.75-3.243.0C+65-73.92.25-2.742.5	Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A86-94.93.75-4.244.0B+80-85.93.25-3.743.5B74-79.92.75-3.243.0C+65-73.92.25-2.742.5	A+	95-100	4.25-4.5	4.5
B+         80-85.9         3.25-3.74         3.5           B         74-79.9         2.75-3.24         3.0           C+         65-73.9         2.25-2.74         2.5	А	86-94.9	3.75-4.24	4.0
B         74-79.9         2.75-3.24         3.0           C+         65-73.9         2.25-2.74         2.5	B+	80-85.9	3.25-3.74	3.5
C+ 65-73.9 2.25-2.74 2.5	В	74-79.9	2.75-3.24	3.0
	C+	65-73.9	2.25-2.74	2.5
C 60-64.9 2.0-2.24 2.0	С	60-64.9	2.0-2.24	2.0
D 50-59.9 Less than 2.0 1.0	D	50-59.9	Less than 2.0	1.0
F Less than 50 0	F	Less than 50		0

# Voluntary Withdrawal

Students should refer to the <u>Registrar's Office</u> web page for more information on voluntary withdrawal dates. Students who do not drop the course by the deadline will be assigned a final grade. Withdrawal of courses will be recorded on official transcript. The professor is willing to discuss the student's progress and strategies for improvement prior to the withdrawal date.

# **ASSIGNMENT DESCRIPTIONS**

Reflections (18%): A 400 word response for 6 selected weeks (see above)

In 400 words, reflect on what you have learned in that week's class. A number of points can be reflected on, and you may also add comments or questions. Only responses posted in UM Learn will be accepted – email responses will not be accepted. Upload reflections to assigned folder under "Assignments" on UM Learn

Weekly reflections due 11:59 PM, the Thursday after each respective class.

# **Other Assignments**

#### International Organics: A Scientific Paper Review (15%)

Students must summarize the paper using a powerpoint presentation format.

- 1. Introduction. This is a summary of the introduction section of the paper. It should contain background to the research subject or topic, points about previous research in the area and end with the main objectives or research questions.
- 2. Methodology. This is a summary of the research methods used.
- 3. Results. Here you show the results of the research. The ppt slides can contain examples of datasets generated in the research, including graphs, tables or charts. You may also want to redraw some of the data in a sort of a summary.
- 4. Discussion. What was the author's interpretation of their results? How does this research compare with previous research that was introduced in the "Introduction" part of the paper?
- 5. Conclusions. What did the author(s) conclude from the data? What new research was proposed?
- 6. Recommendations. Here, you take the information from the paper and explain how the results might apply to further practical organic crop production in that area or field of work.
- 7. Images/graphics The use of images or graphics is encouraged, provided the images are relevant and/or add to the audience's understanding of the research.
- 8. Spelling/grammar/structure/organization will be assessed.

\*A copy of your selected paper should be uploaded to UM Learn one week before the date you present. All powerpoints must be uploaded to UM Learn by 3pm on the day you present.

\*\* See grading rubric on UM Learn. Total possible marks = 27.

#### Literature Review (25%)

Students will write a 2000-2500 word literature review on a research topic that is relevant to Canadian organic agriculture. A literature review is a critical review and analysis of previously published academic works including peer reviewed articles, books and other sources (e.g. dissertations, conference proceedings) that are relevant to the area of research you are reviewing. The purpose is to offer an overview of significant literature published on a topic. For your literature review you will want to include the following:

- 1. Title of your literature review (2 marks)
- 2. Objective of your literature review (15 marks)
- 3. Introduction and overview of your topic or subject (20 marks)
- 4. Summary and assessment of the existing literature on the research topic or subject (both in favor and opposed) (45 marks)
- 5. Identification of gaps or inconsistencies in the literature (10 marks)
- 6. Areas that require future work (8 marks)
- 7. Spelling/grammar/structure/organization will be assessed
- Total possible marks = 100

\*\*Your literature review must include in text citation and a full list of references used. See referencing style below.

#### Independent Greenhouse Research Projects (30%)

Different experiments related to organic crop production will be carried out in the greenhouse. Students will be assigned two or three experiments. Students must collect data from the experiments, write a lab report on the studies and present their experiment details and results to the class using a powerpoint presentation format. *Further details provided on UM learn under "Research projects" (under content)* 

# **Referencing Style**

All references cited in your reports should be in alphabetical order according to the senior (first) author's surname. The following is the standard method for citing references to the appropriate journal or book referred to in the body of your Discussion.

**Example 1** - citation of a multi-authored book in which each chapter is written by a different author but the complete publication is edited by one or two persons. The author(s) and page numbers of the specific chapter are cited.

Baker, L.M. and E. Green. 1984. The inheritance of eye colour. p. 187-241, In: Human genetics. A. Brown (ed.), Plenum Press, New York.

**Example 2** - citation of a book as in Example 1 except that only one person has authored and edited the entire book (e.g. a textbook).

Russell, P.J. 1986. Translation of the genetic message. p. 437-466, In: Genetics. Little, Brown and Co., Boston.

**Example 3** - citation of a paper from a scientific journal. Kerby, K. and J. Kuspira. 1987. The phylogeny of the polyploid wheats. Genome, 29:722-737.

**Example 4** – citation of material from the web.

White, B. 1995. Sex linkage. URL: http://web.mit.edu/esgbio/www/mg/sexlinkage.html Retireved on: Jul. 8, 2006

# Assignment Feedback

Marks for the 6 reflection logs will be provided within one week of receiving them. Class assignments will be graded and returned to students within two weeks of receiving them. Each assignment will receive feedback in terms of content, level of insight and analysis, and grammar and overall composition. There will be both formative (i.e., comments) and summative (i.e., grade) feedback. The feedback will be delivered electronically.

# Assignment Extension and Late Submission Policy

All assignments should be submitted by the due date listed in the course schedule. Extensions are generally not granted. In extreme circumstances due to health or other compassionate reasons, a student may make a request to the instructor in writing. Making a request for an extension does not guarantee it will be approved.

• Students who fail to submit work on time are subject to the late assignment penalty. The penalty is a 10% per day reduction in the value of the student's grade for up to five days. After that point, the work is worth zero percent.

• Students are expected to make every effort possible to submit required work by the due date.

• All assignments must be submitted to pass this course

# **Attendance and Participation Policy**

• You are expected to attend all classes and individual attendance will be taken during each class.

- Students who are absent from more than 3 classes will automatically receive zero for their attendance/participation record.
- Students must be present in class to receive participation marks. There are no opportunities to make up missed participation marks.

# **UNIVERSITY SUPPORT OFFICES & POLICIES**

Information on university support offices and policies are provided in <u>Schedule "A"</u> below.

#### 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: <u>http://umanitoba.ca/student/academiclearning/</u>

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: <u>http://bit.ly/WcEbA1</u> or name: <u>http://bit.ly/1tJ0bB4</u>. 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: <u>http://bit.ly/1sXe6RA</u>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage:<u>www.umanitoba.ca/libraries</u>. **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 <u>http://umanitoba.ca/student/case-manager/index.html</u> 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 <a href="http://umanitoba.ca/student/health/">http://umanitoba.ca/student/health/</a>

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 <u>http://umanitoba.ca/copyright</u> 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 <u>Academic Calendar http://umanitoba.ca/student/records/academiccalendar.html</u> 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 <a href="http://umanitoba.ca/registrar/">http://umanitoba.ca/registrar/</a>
- 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 <a href="http://umanitoba.ca/academicintegrity/">http://umanitoba.ca/academicintegrity/</a> 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 <u>http://umanitoba.ca/admin/governance/media/Intellectual Property\_Policy\_</u>-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 <a href="http://umanitoba.ca/faculties/">http://umanitoba.ca/faculties/</a>

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

#### **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