# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE DETAILS</td>
<td>3</td>
</tr>
<tr>
<td>INSTRUCTOR CONTACT INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>TEACHING ASSISTANT (TA) &amp; GRADER/MARKER (GM) CONTACT INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>COURSE DESCRIPTION</td>
<td>4</td>
</tr>
<tr>
<td>COURSE GOALS</td>
<td>4</td>
</tr>
<tr>
<td>COURSE LEARNING OBJECTIVES</td>
<td>4</td>
</tr>
<tr>
<td>TEXTBOOK, READINGS, AND COURSE MATERIALS</td>
<td>5</td>
</tr>
<tr>
<td>USING COPYRIGHTED MATERIAL</td>
<td>5</td>
</tr>
<tr>
<td>COURSE TECHNOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>EXPECTATIONS: I EXPECT YOU TO</td>
<td>5</td>
</tr>
<tr>
<td>EXPECTATIONS: YOU CAN EXPECT ME TO</td>
<td>6</td>
</tr>
<tr>
<td>CLASS SCHEDULE AND COURSE EVALUATION</td>
<td>6</td>
</tr>
<tr>
<td>LAB EXPECTATIONS</td>
<td>8</td>
</tr>
<tr>
<td>LAB SCHEDULE</td>
<td>9</td>
</tr>
<tr>
<td>GRADING</td>
<td>9</td>
</tr>
<tr>
<td>VOLUNTARY WITHDRAWAL</td>
<td>9</td>
</tr>
<tr>
<td>LAB REPORT DESCRIPTIONS</td>
<td>9</td>
</tr>
<tr>
<td>REFERENCING STYLE</td>
<td>9</td>
</tr>
<tr>
<td>ASSIGNMENT FEEDBACK</td>
<td>9</td>
</tr>
<tr>
<td>LAB REPORT EXTENSION AND LATE SUBMISSION POLICY</td>
<td>10</td>
</tr>
<tr>
<td>UNIVERSITY SUPPORT OFFICES &amp; POLICIES</td>
<td>10</td>
</tr>
</tbody>
</table>
COURSE DETAILS

Course Title & Number: FOOD ENGINEERING FUNDAMENTALS, FOOD 3210

Number of Credit Hours: 3 CH

Class Times & Days of Week: Lectures 1:00 pm - 2:15 pm Tuesdays and Thursdays
Labs 2:30-5:25 Thursdays

Location for classes: #344, Ellis building

Location for labs: Computer lab: Remote
All other labs: #216 (Pilot Plant), Ellis Building

Pre-Requisites: BIOE 3530

Instructor Contact Information

Instructor(s) Name & Preferred Form of Address: Nasibeh Y. Sinaki
I will respond to any civil form of address such as Nasibeh, Dr. Nasibeh, Dr. Sinaki, etc.

Office Location: Desk #31, 2nd floor, Richardson Centre for Food Technology and Research (RCFTR)

Office Hours or Availability: To schedule an appointment, contact me via email at least 2 work days in advance.

Email: Nasibeh.younessinaki@umanitoba.ca (preferred method of communication)
Note: All emails should contain FOOD 3210 at the subject line and must conform to the Communicating with Students university policy. Please introduce yourself in your emails, and avoid using emoticons. I will respond to emails within 2 work days.

Contact: Email is the preferred method of communication.

Teaching Assistant (TA) & Grader/Marker (GM) Contact Information

TA/GM Name: Siwen Luo

Office Location: Desk #35, 2nd floor, Richardson Centre for Food Technology and Research (RCFTR)

Office Hours or Availability: To schedule an appointment, contact her via email at least 1 work day in advance.
Email: luos345@myumanitoba.ca Note: All email communication must conform to the Communicating with Students university policy. Expect return emails within 2 work days.

Course Description

U of M Course Calendar Description
Applications of engineering fundamentals to unit operations in the food industry.

General Course Description
This course is designed to teach students the fundamentals required for food engineering. Students will acquire knowledge of food engineering principles in food processing, such as flow characteristics of fluids, heat and mass transfer (and their combination), refrigeration, and an introduction to the interaction of electromagnetic radiation with food materials, in order to apply these fundamentals to various unit operations in the food industry.

Course Goals
By the end of the course, the student should be able to:
1. Identify the mechanisms by which various unit operations in food processing optimize food quality and extend the shelf life of foods.
2. Apply physical principles to understand why food components are processed in specific ways.
3. Justify the application of basic mathematical principles to food processing issues.
4. Acquire specific success skills to prepare for a career in the food industry.

Course Learning Objectives
By the end of the course, the student should be able to:
- Explain the principles that permit various food technologies to make a food product safe for consumption
- Understand principles of heat and mass transfer phenomena
- Explain basic fluid dynamics characteristics of liquid foods
- Recall the unit operations used to produce a range of food products
- Describe the theories of refrigeration and freezing
- Restate the principles and practices of processing techniques and the effects of processing parameters on product yield, quality and safety
- Understand how various physical processes employed in food processing affect the quality and safety of food
- Understand the source and variability of raw food material and their impact on food processing operations
- Manipulate mass and energy balances for a given food processing operation
- Analyze transport processes and unit operations in food processing as demonstrated both conceptually and in practical laboratory settings
- Understand the unit operations required to produce a given food product
- Categorize the principles and current practices of processing techniques and the effects of processing parameters on product quality
- Employ computers to solve food engineering and food process problems
Critique practical, real-world food process situations and problems using food engineering concepts
Plan food processing strategies to control and assure the quality of food products
Generate process flows to attain specific process strategies
Predict the effect of specific heat and mass transfer operations on product quality and safety
Demonstrate effective written communication skills
Apply critical thinking skills to new situations, especially processing problems.

Textbook, Readings, and Course Materials
There is no required textbook for the course, but much of the course material is taken from: “Introduction to Food Engineering” (Singh & Heldman). Any edition of this book works (you do not need the latest edition). Full-text version of the textbook is available online through University of Manitoba Libraries.

Required course material will be given as web-pages, handouts or class notes.

Required materials: Scientific calculator for lectures, lab sessions and exams.

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 http://umanitoba.ca/copyright/ or contact um_copyright@umanitoba.ca.

Course Technology
Required course material will be given as class notes through UM Learn. Tablets, cellphones and laptops can be used during the lectures and labs to take notes, in a responsible, efficient, ethical and legal manner.

Class participation will be recorded via iClicker. Students are required to install iClicker Student on their phone. Therefore, you need a smartphone (or a tablet, or a laptop) onto which you need to install iClicker Student. Using your smartphone (or tablet, or laptop), visit the appropriate app store and search for iClicker Student (formerly iClicker Reef). Follow the prompts to install the application.

Expectations: I Expect You To
- To be successful in this class, you need to review the course materials, complete the pre-class (pre-lab and pre-tour) work and ask for help when you need it.
- Make yourself familiar with and follow Respectful Work and Learning Environment Policy.
- Attend the classes and lab sessions regularly and punctually.
- Attend the discussions actively and answer questions I may ask (to the best of your ability). Active class participation is worth 10% of your overall grade.
- Use your laptop/phone/tablet in the class for course-related purposes only, and not interrupt the others.
- Not leave the class before it ends.
• Follow the policies around Class Communication and Academic Integrity.

**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](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. Lab group members must ensure that a group project (during each lab session) adheres to the principles of academic integrity.

**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 of Dr. Nasibeh Y. Sinaki. 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

**Expectations: You Can Expect Me To**
I will be in class for 10 minutes prior to and after the class time to discuss any questions or comments you may have.

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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.
<table>
<thead>
<tr>
<th>Date</th>
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<th>Evaluation</th>
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<td>10-Jan</td>
<td>Introduction &amp; Units &amp; Dimensions</td>
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<tr>
<td>12-Jan</td>
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<td>-</td>
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</tr>
<tr>
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<tr>
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<td>-</td>
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<tr>
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<td>-</td>
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<td>Example question</td>
<td>iClicker I 0.52%</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>23-Feb</td>
<td>Winter term break</td>
<td>-</td>
<td>-</td>
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<td>28-Feb</td>
<td>Midterm</td>
<td>-</td>
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<tr>
<td>2-Mar</td>
<td>Mass tr.</td>
<td>-</td>
<td>iClicker I 0.52%</td>
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<td>7-Mar</td>
<td>Mass tr.</td>
<td>-</td>
<td>iClicker I 0.52%</td>
</tr>
<tr>
<td>9-Mar</td>
<td>Mass tr. + Quiz</td>
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<tr>
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<tr>
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<td>Topic</td>
<td>Example question</td>
<td>Objective</td>
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<td>-------</td>
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</tr>
<tr>
<td>21-Mar</td>
<td>Freezing</td>
<td>-</td>
<td>iClicker</td>
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<td>Freezing + Quiz</td>
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<tr>
<td>28-Mar</td>
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<td>30-Mar</td>
<td>Psychrometry</td>
<td>-</td>
<td>iClicker</td>
</tr>
<tr>
<td>4-Apr</td>
<td>Psychrometry</td>
<td>Lecture notes on UM Learn &amp; Example question</td>
<td>iClicker</td>
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<tr>
<td>6-Apr</td>
<td>Interaction of waves with foods</td>
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<td>iClicker</td>
</tr>
<tr>
<td>11-Apr</td>
<td>problem solving (final exam preparation)</td>
<td>Lecture notes on UM Learn &amp; Example questions</td>
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<tr>
<td>TBA</td>
<td>Final exam</td>
<td>-</td>
<td>Problem solving</td>
</tr>
</tbody>
</table>

Labs: 25%

TOTAL: 100%

**Lab Expectations**

- Any communication related to the lab sections of the course should be directed to your teaching assistant (TA) and grader/marker (GM). If you need further clarifications on the labs or your reports, you can reach Dr. Sinaki via email.
- You are expected to arrive to the lab on time. For every minute you are late, you will lose 1% of your total lab report mark.
- Lab attendance is mandatory.
- 100% of the mark allocated to a lab will be deducted if absent without a doctor’s note or documentation of a substantiated and compelling personal matter in writing. **Students are not allowed to handover lab reports without attending the lab sessions.**
- Students will work in groups as assigned for labs, and each group will be provided different data sets for their reports. **Each student will submit their own report.** Any evidence of plagiarism in lab reports (e.g., whether from another lab partner, or group, or lab report from previous courses or years) will result in “0” mark, and the matter will be subject to disciplinary action in accordance with university policy on academic misconduct.
- Lab reports are due 2 weeks after a lab. Late write-ups will lose 10% of credit for submission after the due date, and 10% for each additional day late. Please see the lab report rubrics on UM Learn.
Lab Schedule
Lab session topics include: computer lab, mass and energy balance, viscosity, pumps, thermal properties determination, rate of heat transfer, heat exchanger, psychrometry. Each student will perform five labs out of the 8 topics listed above. Every student will perform the computer lab. The lab schedule and corresponding details will be announced the second week of classes.

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

<table>
<thead>
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<th>Percentage out of 100</th>
<th>Grade Point Range</th>
<th>Final Grade Point</th>
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<td>4.5</td>
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<tr>
<td>A</td>
<td>85-91</td>
<td>3.75-4.24</td>
<td>4.0</td>
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<tr>
<td>B+</td>
<td>78-84</td>
<td>3.25-3.74</td>
<td>3.5</td>
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<tr>
<td>B</td>
<td>72-77</td>
<td>2.75-3.24</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>66-71</td>
<td>2.25-2.74</td>
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</tr>
<tr>
<td>C</td>
<td>60-65</td>
<td>2.0-2.24</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>50-59</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>
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</table>

Voluntary Withdrawal
Jan 20, 2023: Last day to drop Winter Term courses without penalty.

March 22, 2023: Voluntary Withdrawal deadline. Students who do not drop the course by the deadline would be assigned a final grade. The withdrawal courses will be recorded on official transcript. Refer to the Registrar’s Office web page for more information.

All important dates and deadlines are listed here:
https://umanitoba.ca/registrar/important-dates-deadlines#winter-term-2023

I am willing to discuss student’s progress and strategies for improvement prior the withdrawal date.

LAB REPORT DESCRIPTIONS
Lab report instructions and evaluation criteria (rubric) will be provided (Section 2.5 ROASS) through UM Learn. All lab reports must be uploaded onto UM Learn in .pdf format (unless otherwise stated). Lecture notes and lab handouts are not acceptable sources to be cited in your lab reports.

Referencing Style
Lab reports should use the reference style of “Journal of Food Engineering” as outlined in:
https://www.elsevier.com/journals/journal-of-food-engineering/0260-8774/guide-for-authors

Assignment Feedback
Lab report feedback will be provided in the formative (i.e., comments) and summative (i.e., grade) form via UM Learn. You can expect to receive your graded lab reports within 2 weeks after you hand them in. You can also expect the midterm exam and quiz grades 2 weeks after you write them.
LAB REPORT Extension and Late Submission Policy

Lab reports must be received through UM Learn before midnight on its due date. For every late day, you will lose 10% of the total mark for that lab report. You must attend all the lab sessions to pass the course (unless you have a doctor’s note or documentation of a substantiated and compelling personal matter in writing). All lab reports need to be submitted to pass the course.

UNIVERSITY SUPPORT OFFICES & POLICIES

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.
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](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](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/](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](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](http://umanitoba.ca/student/livewell/index.html)

**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](http://umanitoba.ca/copyright) for more information.
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/](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/](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**

  **Student Discipline**
  [http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html](http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html) and,

  **Violent or Threatening Behaviour**

- 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:
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 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