PLNT 2520: Genetics

Fall, 2020

Faculty of Agricultural and Food Sciences
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COURSE DETAILS

Course Title & Number: PLNT 2520 – Genetics – Online with Synchronous and Recorded Lectures/Labs

Number of Credit Hours: 3 – Lectures MWF 9:30 am – 10:20am; Labs T 2:30pm – Within UM Learn Via Webex

Pre-Requisites: PLNT 2520 is a course of study in the principles of genetics for students who have: A minimum grade of "C" in BIOL 1020 and BIOL 1030 or the former 071.125. Not to be held with BIOL 2500 or the former BOTN 2460 (or 001.246).

Instructor Contact Information

Instructor(s) Name & Preferred Form of Address: Dr. Robert Duncan

Office Hours or Availability: Following each class, I will stay on Webex for 20-30 minutes to answer any course related questions. Please stay on after class whenever you prefer. You can also make appointments within UM Learn via Webex with Dr. Duncan or Madison on an as needed basis. Feel free to email Dr. Duncan at rob.duncan@umanitoba.ca. Please direct lab related questions to Madison McCausland - mccausl4@myumanitoba.ca. Feel free to talk to us about any issue relating to the course. Please start this process early in the semester. Far too often, students leave their questions and concerns until after their grade is lower than expected. I encourage you to discuss the course or course material frequently over the course of the semester.

Email and contact: rob.duncan@umanitoba.ca

All email communication must conform to the Communicating with Students University Policy. We will normally respond to an email with in 24 hours. The best way to discuss the course and course material is by email or making an appointment in UM Learn via Webex. Contact your Teaching Assistant, Madison McCausland - mccausl4@myumanitoba.ca for lab related questions.
COURSE DESCRIPTION

An introduction to basic principles of genetics and their practical application in the areas of DNA structure and function, genome organization and genetic analysis. Laboratory sessions provide practical experience in solving genetic problems and conducting genetic investigations.

During the Fall 2020 semester, the course and lab will be online, taught in a synchronous manner. Each class/lab will be recorded and available within UM Learn via Webex for a 1-2 weeks following the original date of the class. The recordings will facilitate access to the class and lab if the synchronous class/lab cannot be accessed due to health reasons or poor internet connectivity. It is highly recommended that you attend each live class and lab. By participating in the recorded synchronous classes and labs you consent to being recorded. If you do not consent to being recorded, the classes and labs will not be recorded and will not be available following the class or lab.

Course Goals

- To develop greater awareness and appreciation of classical and molecular genetics with emphasis on genetic material and its formation, transmission, function and organization
- To define the fundamental concepts and disciplines in genetics.
- To introduce the nature of genetic material and mechanisms/patterns of heredity in plants and animals.
- To introduce you to the interaction between genetic material and environment and teach you how it can affect the genotypic (genetic material) and phenotypic (appearance) expression of plant and animal populations.
- To illustrate how knowledge of genetic material, mechanisms of heredity and interactions of genes and environment can be used to increase production.
- To learn and understand the genetic material at molecular level.

Course Learning Objectives

On completion of this course, students should be able to:

- Describe a historical perspective of genetics, identifying breakthroughs of discovery and prominent scientists who were involved in these breakthroughs.
- Describe Mendelian genetics, chromosomal basis of inheritance and sex determination/linkage.
- Explain gene expression and the environment, genetic mapping in eukaryotes and chromosomal mutations.
- Demonstrate the importance of genetic structure, genetic variation, Hardy-Weinberg Law and inbreeding.
- Evaluate the nature of continuous traits and the statistical tools to analyze them, and describe polygenic inheritance, heritability and response to selection.
- Explain the composition and structure of DNA & RNA, the organization of DNA in chromosomes, DNA replication, transcription and translation.
- Apply problem-solving skills to predict genetic outcomes.
COURSE MATERIALS AND TECHNOLOGY

Required textbook – *Genetic Analysis: An Integrated Approach*. Sanders and Bowman (2nd or 3rd edition). This textbook uses an integrated approach that helps contextualize three core challenges of learning genetics: solving problems, understanding evolution, and understanding the connection between traditional genetics models and more modern approaches. The text is ideally suited for students who have had some background in biology and chemistry and who are interested in learning the central concepts of genetics. Hard copies or E-texts ([https://www.campusebookstore.com/integration/AccessCodes/default.aspx?bookseller_id=33&Course=BIOL+2500%2f3500+%2f+PLNT+2520&frame=YES&t=permalink](https://www.campusebookstore.com/integration/AccessCodes/default.aspx?bookseller_id=33&Course=BIOL+2500%2f3500+%2f+PLNT+2520&frame=YES&t=permalink)) can be found through the University of Manitoba Bookstore. Required readings can be found in the Class Schedule.

Technology – It is a requirement that you have all hardware, software and connection ability necessary to successfully operate UM Learn and WebEx. Course material, grades and communication will occur using UM Learn. We will also be using iClicker Cloud for participation and practice. Thus, you will need to setup an iClicker Cloud account.

The course will be synchronous within UM Learn via Webex. Each class will be recorded and available in UM Learn. **These recordings can be streamed but not downloaded or distributed due to copyright. Please respect the copyright of all material used within the course.** Please see the support section within UM Learn for questions regarding the use of UM Learn, Webex and iClicker Cloud. Please utilize the UM Learn tutorials for remote learning, UM Learn and Webex.

Laboratories - Lab books will be supplied as a PDF in UM Learn. Labs will take place synchronously with presentations and pre-recorded videos for specific lab experiments.

During Classes and Labs - 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 technology during classes and labs only for educational purposes approved by instructor and/or the University of Manitoba Student Accessibility Services. Students 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 the scheduled class/lab times. If a student is on call (emergency) the student should switch his/her cell phone and/or notifications off. (©S Kondrashov. Used with permission).
EXPECTATIONS AND POLICIES

I EXPECT YOU TO:

- Attend class regularly. Live lectures will be held every MWF, 9:30am-10:20am. Attendance is expected and participation grades will be assigned based on responses to classroom poll questions.
- Attend each and every lab. Live labs will be held every T at 2:30pm.
- Keep on schedule with the required readings.
- Complete the lab tutorials and hand them in at the beginning of each lab.
- Participate regularly in class and in the lab and participate in discussions.
- Contact me if you are unclear on a topic.
- Contact me if you there is an error in grading.
- Treat me and all your classmates with respect. See Respectful Work and Learning Environment Policy. This includes no texting or social media during class.
- Complete all lab reports, assignments, quizzes and exams individually.
  (i) All assignments, tutorials and lab 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) All work is to be completed independently unless otherwise specified.
- Complete all quizzes and exams individually.
- I expect you to follow these policies around Class Communication and Academic Integrity.

Class Communication: Please note that all communication between myself and you as a student must comply with the electronic communication with student policy: (http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html). You are required to obtain and use your U of M email account and UM Learn for all communication between yourself and the university.

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
RECORDING SYNCHRONOUS SESSIONS/ONLINE LECTURES AND LABS

The synchronous lectures and labs will be recorded, including your participation. **By participating in the recorded synchronous classes and labs you consent to being recorded. If you do not consent to being recorded, the classes and labs will not be recorded and will not be available following the class or lab.**

Copyright and Ownership of Course Content

This material is copyrighted by (Robert Duncan, 2020). 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 Robert Duncan. Course materials (both paper, digital and the recorded classes and lab) 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.

EXPECTATIONS:

YOU CAN EXPECT ME TO:

- Arrive before class and stay after class to answer any questions you may have.
- Explain and provide examples of the topics listed below in the class schedule.
- Make sufficient time outside of class to meet with students and make sure course material is clear.
- A large part of my teaching practice includes the use of questions in class. I expect students to make an effort to respond and join in on class discussions.
- Provide an unbiased grading scheme.
- Return all graded assignments and exams within 2 weeks of the due date.
- Help you succeed in PLNT 2520 and your degree.

COURSE SCHEDULE

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>TOPIC</th>
<th>CHAPTER</th>
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<tbody>
<tr>
<td>0. Introduction</td>
<td></td>
</tr>
<tr>
<td>Topic 1 Intro to Modern Genetics</td>
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<tr>
<td>I. Mendelian Analysis</td>
<td></td>
</tr>
<tr>
<td>Topic 2 Mendelian Genetics I</td>
<td>2</td>
</tr>
<tr>
<td>Topic 3 Mendelian Genetics II</td>
<td>2</td>
</tr>
<tr>
<td>Topic 4 Chromosomal Basis of Inheritance</td>
<td>3</td>
</tr>
<tr>
<td>Topic 5 Sex Determination and Sex Linkage</td>
<td>3</td>
</tr>
<tr>
<td>II. Extensions of Mendelian Analysis</td>
<td></td>
</tr>
<tr>
<td>Topic 6 Extensions of Mendelian Analysis I</td>
<td>4</td>
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<tr>
<td>Topic</td>
<td>Period</td>
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</table>
Laboratory Expectations

- **All labs are mandatory**
- Your will receive a participation score of 0 points for the lab that is missed.
- All lab reports and lab quizzes must be written independently.
- Tutorial questions are due at the beginning of each laboratory period.
- Participation is also heavily weighted in the laboratory section.
- Maintain complete respect for your Teaching Assistants at all times.
- Students are encouraged to seek help from your Teaching assistant outside of the lab period.

LABORATORY PROJECTS: The series of projects outlined in the laboratory manual are designed to acquaint the student with the physical basis of inheritance and the basic principles (laws) of genetics. The projects are designed to give actual experience in observing, tabulating, and interpreting genetic research. Emphasis is placed on the use of statistics as a means of evaluating results, since this is necessary in genetic experiments.

The exercises have been presented so that students can observe recorded/live lab exercises. **Students will be expected to have carefully read the exercise of the day before coming to the laboratory so that they will understand the objectives, terminology and methods of each exercise.**

Students are to hand in **individual and unique reports** even though the data will be provided to the class.

TUTORIAL QUESTIONS: The laboratory exercises include problem solving. Each problem is chosen to represent a particular genetic principle presented in the lectures. Students are advised to be sure to complete all problems and to understand the principles involved. This work will compose a portion of your participation grade and will improve your overall lab experience. Participation in the tutorial will be assessed by the instructor as part of the laboratory marks. **Answers to all tutorial questions need to be handed in at the beginning of the respective lab.**

LABORATORY QUIZZES: The set of three quizzes is based on questions typical of the practice questions. The quizzes are set by each instructor and are typically of 40 minutes duration at the start of the laboratory period.

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**Lab Weekly Schedule**

<table>
<thead>
<tr>
<th>LAB</th>
<th>Date</th>
<th>I.</th>
<th>II.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAB 1</td>
<td>15/09/20</td>
<td></td>
<td>Detailed discussion of Cell Division (Mitosis and Meiosis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>I.</td>
<td>Tutorial 1 - Mitosis and Meiosis - DUE</td>
</tr>
<tr>
<td>LAB 2</td>
<td>22/09/20</td>
<td></td>
<td>Tutorial 2 - Mendelian Inheritance - DUE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>I.</td>
<td>Introduction to Chi-Square Test</td>
</tr>
<tr>
<td></td>
<td></td>
<td>II.</td>
<td>Introduction to <em>Drosophila</em> – Practice Cross</td>
</tr>
<tr>
<td>LAB 3</td>
<td>29/09/20</td>
<td></td>
<td>Tutorial 3 - Sex Linkage - DUE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>I.</td>
<td>Prepare cultures of Drosophila Cross 1 (Sex Linkage)</td>
</tr>
</tbody>
</table>
LAB 4  I.  **Quiz** on Labs 1, 2 and 3
       6/10/20  II.  Euthanize parents of Cross #1
               III.  Prepare cultures of Drosophila Cross #2 (3-Point Linkage)

LAB 5  I.  Tutorial 4 - Gene Interaction - DUE
       13/10/20  II.  Transfer 2-3 pairs of F₁’s from Cross #1
               III.  Euthanize parents of Cross #2
               IV.  Rapid cycling Brassica (RCB) experiment

LAB 6  I.  Tutorials 5 + 6 - Genetic Linkage and Mapping - DUE
       20/10/20  II.  Euthanize F₁’s of Cross #1
               III.  Transfer 2-3 pairs of F₁ from Cross #2 to fresh cultures

LAB 7  I.  **Quiz** on Labs 4, 5 and 6.
       27/10/20  II.  Euthanize F₁ parental testcross flies from Cross #2.
               III.  Tabulate and analyze F₂ data from Cross #1.
               IV.  **Hand in RCB report** - DUE

LAB 8  I.  Tutorial 7 – DNA and RNA - DUE
       3/11/20  II.  PTR (Tan Spot) Experiment
               III.  Tabulate and analyse testcross data from Cross #2.

LAB 9  I.  Tutorial 8 – Chromosomal Mutations - DUE
       17/11/20  II.  **Hand in PTR report** - DUE

LAB 10 I.  Tutorials 9 & 10 – Population and Quantitative Genetics - DUE
       24/11/19

LAB 11 I.  **Quiz** on Labs 8, 9, 10
Voluntary Withdrawal

The voluntary Withdrawal date is November 23, 2020. Students who do not drop the course by the deadline will be assigned a final grade. Withdrawal courses will be recorded on an official transcript. Refer to the Registrar’s Office web page for more information. I am happy to discuss your progress and aid in your decision throughout the entire term.

COURSE ASSESSMENT

A variety of methods will be used to give all types of learners an opportunity to excel.

<table>
<thead>
<tr>
<th>GRADING SYSTEM:</th>
<th>SCHEDULE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory</td>
<td>30% Page 10 and see lab manual</td>
</tr>
<tr>
<td>Lecture Quizzes</td>
<td>20% Two quizzes each worth 10% (Sept. 28th and Nov. 16th)</td>
</tr>
<tr>
<td>Participation</td>
<td>10% See rubric below</td>
</tr>
<tr>
<td>Exam 1</td>
<td>20% October 21, 2020</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20% December 11, 2020. Exam 2 will cover all topics in the course.</td>
</tr>
</tbody>
</table>

*A passing grade in the lab must be achieved to pass the entire course.*

Laboratory Evaluation

<table>
<thead>
<tr>
<th>LAB REPORTS:</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCB Lab</td>
<td>25 Points Lab 7</td>
</tr>
<tr>
<td>PTR Tan Spot</td>
<td>25 Points Lab 9</td>
</tr>
<tr>
<td>Drosophila Lab</td>
<td>25 Points Lab 11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>QUIZZES:</th>
<th>Quiz Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz #1</td>
<td>20 Points Lab 4</td>
</tr>
<tr>
<td>Quiz #2</td>
<td>20 Points Lab 7</td>
</tr>
<tr>
<td>Quiz #3</td>
<td>20 Points Lab 11</td>
</tr>
</tbody>
</table>

**PARTICIPATION:** The participation mark will be composed of 20 points (2 points per lab) for completing your practice questions and for your attendance and interaction.

A total of 155 points are available for the lab component. Your laboratory mark will be converted to a percentage and the lab is worth 30% of your entire grade.
Grading

All of your assignments and evaluations will be calculated as a percentage and converted into a grade point. Your final grade point will be determined by where your calculated grade point fits into the grade point range.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage out of 100</th>
<th>Final Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
<td>4.5</td>
</tr>
<tr>
<td>A</td>
<td>80-89</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>75-79</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>70-74</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>65-69</td>
<td>2.5</td>
</tr>
<tr>
<td>C</td>
<td>60-64</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>50-59</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Less than 50</td>
<td>0</td>
</tr>
</tbody>
</table>

Class Participation Rubric

Class participation will be evaluated using iClicker Cloud. For each question asked students will receive one point for answering the question and one point for answering correctly. The iClicker grade will be determined as the sum of all questions asked during lectures and weighted according to the points earned for each question. Students that receive at least 80% of the iClicker points will receive 10/10, those with 70-79% of the points will receive 9/10, those with 60-69% of the points will receive 8/10, those with 50-59% of the points will receive 7/10, those with 40-49% of the points will receive 6/10, and those with less than 40% of the iClicker points will get 0/10.

Referencing Style

All references cited in your report 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.


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).


Example 3 - citation of a paper from a scientific journal.

Example 4 – citation of material from the web.


Assignment Feedback

All assignments and evaluations will be returned within a maximum of two weeks following the due date or evaluation date. The voluntary withdrawal date is November 23, 2020. By this time point you will have over 40% of your grade to base your withdrawal decision on.

Assignment Extension and Late Submission Policy

- All assignments should be submitted by the due date listed in the course schedule. If an extension is required the student must inform the instructor in writing.
- Students who fail to submit work on time and do not ask for an extension are subject to the late assignment penalty. The penalty is an 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 who are not able to submit assignments on time due to health or other compassionate reasons must submit a written explanation ahead of time or, if that is not possible, after the missed due date, but no later than one week after the missed assignment due date. If an extension is granted, the penalty will be 4% for each working day of the extension to a maximum 50%. Only in extreme circumstances will an extension be granted with no late deductions.
- Students are expected to make every effort possible to submit required work by the due date.

The following factors are considered not to be contributing to or constituting extenuating circumstances:

- Computer failure will not be considered a valid reason for the late submission of assignments, and extensions of more than “two life happens days” (see course outline for more details) will not be granted as a result of computer failure. Software crashes, disk failures and printing difficulties are an unavoidable aspect of using a computer and should be anticipated and planned for.
- Assessment tasks in other subjects: Students are given fair notice of assessment due dates and are expected to manage their time in order to meet the set deadlines. This specifically includes assessment resulting from an approved overload.
- Employment responsibilities and routine financial support needs: Only in very exceptional circumstances would students be eligible for extensions for work commitments (for example, an unplanned, urgent and unavoidable overseas work task for a professional full-time worker studying part-time).
- Social activities and commitments: Social activities (for example, recreational travel (domestic or international), planned events such as weddings, or participation in a University play) are expected to be undertaken and managed by students without interfering with their ability to fulfil assessment tasks.
- Stress or “normal” anxiety: the stress or anxiety normally associated with the completion of required assessment tasks or any aspect of course work is not considered. A medically diagnosed
anxiety disorder, however, may be grounds for an extension or other accommodation under the policy for students experiencing academic disadvantage.

**Academic Integrity**

Each student in this course is expected to complete their coursework and programs of study with integrity by making a commitment to the six fundamental values of honesty, trust, fairness, respect, responsibility, and courage. [http://umanitoba.ca/student-supports/academic-supports/academic-integrity](http://umanitoba.ca/student-supports/academic-supports/academic-integrity)

Academic integrity looks like referencing the work of others that you have used and completing your assignments independently unless otherwise specified.

If you are encouraged to work in a team, ensure that your project is completed with integrity. You must also do your own work during exams. Plagiarism, duplicate submission, cheating on quizzes, tests, and exams, inappropriate collaboration, academic fraud, and personation are in violation of the Student Discipline Bylaw and will lead to the serious disciplinary action. Visit the Academic Calendar, Student Advocacy, and Academic Integrity web pages for more information and support.

**LEARNER SUPPORT**

**Writing and Learning Support**

The Academic Learning Centre (ALC) offers writing and learning supports to help you throughout your academic program. These supports are offered online during the Covid-19 pandemic.

Make an appointment with an ALC 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. The ALC also has an English as an Additional Language (EAL) specialist available to work with students on improving their English-language academic writing skills.

Consult an ALC learning specialist or attend an academic skills workshop to improve your time management, learning strategies and test-taking strategies. Get support in select courses by making an appointment with an ALC content tutor. The ALC also offers peer-facilitated study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In SI study groups, students ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

In addition to one-to-one and group sessions, you can also find writing and study tip sheets and videos on the ALC website.

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/](http://umanitoba.ca/student/academiclearning/)

Contact the Academic Learning Centre by calling 204-480-1481 or emailing academic_learning@umanitoba.ca. Bannatyne students can contact the Bannatyne Student
Services office at 204-272-3190.

University of Manitoba Libraries (UML)

Research begins at UM Libraries. Learn at the Libraries is a great place to start, with information for students on academic writing, how to search the library, evaluating resources, and writing citations. 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 locating appropriate resources or managing citations, 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 online. When working remotely, students can also receive help online through Ask Us! chat. For further detail about the libraries’ services and collections, visit the Libraries’ web site. Regularly check our COVID-19 Update page for available library services and access to resources for Fall 2020

Section (b) MENTAL HEALTH SUPPORT

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 UMSU University Centre or S211 Medical Services Building

(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.


520 UMSU University Centre

(204) 474-7423 (Student Support Intake Assistant)

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. Note that due to fire
displacement, UHS is unable to provide in-person medical care on the Fort Garry Campus until October, 2020.

*University Health Service [http://umanitoba.ca/student/health/](http://umanitoba.ca/student/health/)

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

**Health and Wellness**

Contact our Health and Wellness Educator if you are seeking information on health topics, including physical and mental health concerns, alcohol and substance use harms, or sexual violence. You can also access peer support from a *Healthy U* peer health educator.

*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

469 UMSU University Centre

(204) 295-9032

**Sexual Violence Resource Centre**

Contact SVRC if you have experienced sexual violence or are seeking information about how to help somebody else. SVRC provides inclusive, survivor-centred, trauma-informed services, such as consultation, referrals, safety planning, and a range of on-site supports, including counselling by Klinic.

*Sexual Violence Resource Centre*


svrc@umanitoba.ca

537 UMSU University Centre

(204) 474-6562 (Sexual Violence Intake and Triage Specialist)

**Student Services at Bannatyne Campus**

Contact SS@BC to access a full range of resources and supports for learners at the Rady Faculty of Health Sciences. Services are provided through a one-stop hub that includes a range of supports for personal and academic success, including counselling, mental health consultation, and spiritual care.

*Student Services at Bannatyne Campus*
Section (c): 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.

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.

Section (d): 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.

- 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/admin/governance/governing_documents/community/235.html

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/](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.


520 University Centre

204 474 7423

student_advocacy@umanitoba.ca