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Syllabus

Food Safety: Today and Tomorrow, FOOD 1000
(Fall 2020)



Faculty of

UNIVERSITY
OF MANITOBA

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COURSE DETAILS

Course Title & Number:	Food Safey Today and Tomorrow
Number of Credit Hours:	3
Class Times & Days of Week:	T/H 11:30 AM - 12:45 PM
Location for classes:	Umlearn Cisco webex
Pre-Requisites:	None

Instructor Contact Information

Instructor(s) Name & Preferred Form of Address:	Anything polite
Office Location:	408, Human Ecology Building (not available this term)
Office Hours or Availability:	<p>Thursdays, 1:00-2:00 PM (via ZOOM) Join Zoom office hours by clicking on the following link: https://navitas.zoom.us/j/91245602799</p> <p>You may also ask questions immediately at the end of the lecture times.</p> <p>If you need to meet me virtually, but aren't able to visit me during my office hours or right after the lecture time, please send me an email to schedule an appointment. In your email please indicate the course name/number & your availability over the next 5 weekdays.</p>
Office Phone No.	204-2614512 (Home phone number, use in case or urgency).
Email:	<p>Snehil.Dua@Umanitoba.ca</p> <p>Please be professional when emailing me. Please write the course name/number everytime you email me. I teach multiple courses. If I do not know which course you are writing about, I won't be able to answer your question.</p> <p>Please send emails via university account only.</p>
Contact:	<p>The best way to reach me would be via email. On weekdays, I will try to respond to the emails within 24 hours. I will make an effort to reply to the emails on Sunday nights as well. I will not promise returning emails on holidays. In case of urgency, you may call me at</p>

my home number, 204-2614512. Feel free to leave a message at this number.

Course Description

U of M Course Calendar Description

A contemporary examination of the safety of the food supply - where, how and why problems may arise and what is and can be done to consistently achieve high quality, safe food. Controversial issues (residues, organic, biotechnology, irradiation) will be discussed in a balanced manner, and prospects for the future presented.

General Course Description

This course should be of interest to anyone who eats. Although a high school knowledge of biology and chemistry would be useful, every attempt is made to make the course accessible to those without this background.

Course Goals

The broad goal of this course is to enable students develop an understanding of the principles of food safety assessment.

Course Learning Objectives

The course introduces students to the potential hazards of the food supply system and how these hazards may be mitigated. The course will enable the student to:

1. Recognise the difference between a hazard and a risk.
2. Distinguish between various types of physical, chemical and biological hazards and characterize the risks.
3. Explain the principles of risk assessment.
4. Recognize the roles of various stake holders in food safety and their responsibilities in food safety throughout the food chain.
5. Recognize personal responsibility in food safety.

Textbook, Readings, and Course Materials

There are no required reading materials. The following are recommended:

Food Microbiology. An Introduction. Edited by Thomas J. Montville and Karl R. Mathews (2012). 2nd Ed. ASM Press.

Food Microbiology: Fundamentals and Frontiers, edited by Doyle, M. P., and Beuchat, R. L. (2007) 3rd ed. ASM Press, Washington, DC.

DeVries, J. (1996). Food Safety and Toxicity. 349pp. CRC Press Inc. Boca Raton, FL.

Canadian Food Inspection Agency. <http://www.inspection.gc.ca/eng/1297964599443/1297965645317>

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

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

Webcam and, microphone, internet access to the umlearn are needed for the course completion

Material for this course is uploaded to UM Learn. Please see [http://intranet.umanitoba.ca/academic_support/Centre for the Advancement of Teaching & Learning/resources/wikis_blogs.html](http://intranet.umanitoba.ca/academic_support/Centre_for_the_Advancement_of_Teaching_&_Learning/resources/wikis_blogs.html). for support in using this system

Expectations: I Expect You To

Attend,

Participate,

Demonstrate willingness to learn,

Be courteous,

Show academic integrity and honesty.

Work effectively as a team to design and execute class activities.

Not to leave the class before it ends unless there is an emergence to which you must attend. Leaving a class before the end is disrespectful to your instructor and disruptive towards your fellow students.

Do not use your cell phone- Please be respectful in class and turn your cell phone off or onto vibration mode for the duration of the class.

Use your laptop computers to aid your leaning- Laptops are a perfect way to take notes in class and share information with peers; be respectful to the instructor and other students while using laptops by staying on task in class.

Answer questions that I will ask of the class. I do not expect you always (or ever!) to get the correct answer, but I do expect you to try and to participate.

Class Communication:

The University requires all students to activate an official University email account. For full details of the Electronic Communication with Students please visit:

[http://umanitoba.ca/admin/governance/media/Electronic Communication with Students Policy - 2014 06 05.pdf](http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf)

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 for all communication between yourself and the university.

Academic Integrity:

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

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

- I. Group projects are subject to the rules of academic dishonesty;
- II. Group members must ensure that a group project adheres to the principles of academic integrity;
- III. Students should also be made aware of any specific instructions concerning study groups and individual assignments;
- IV. The limits of collaboration on assignments should be defined as explicitly as possible; and
- V. All work should be completed independently unless otherwise specified.

Recording Class Lectures:

I, {Snehil DUA} hold copyright over the course materials, presentations and lectures which form part of this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission from me, unless you have approval from Student Accessibility Services. Course materials (both paper and digital) are for the participant's private study and research only and must not be uploaded to the internet or shared in any way either physically or electronically.

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

To treat you fairly and with respect.

I will remain in the classroom for 10 minutes after class to answer any immediate questions.

I recognise that the academic background of this class is very varied. If I say something or use a term that you do not understand please ask for an explanation at the time in class, because it is most unlikely that you are the only one in the room who did not understand.

There is a lot of content, and for many if not most of you the content will be new and challenging. My role is to help you make sense of it and gain new understandings. My aim, therefore, is to provide support so that all students who engage with this course and its objectives will pass.

This course contains some elements that are controversial (e.g. the utility of GMO based foods). If I say something that you think is strange or not true, then I will respond as best I can to your respectful challenge or request for clarification.

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](#).

Enrollment in local colleges, 2005

Source: Fictitious data, for illustration purposes only

Date	Class Content & Teaching Strategies	Required Readings or any Pre-class Preparation	Evaluation		
			Type of Assessment	Due Date	Value of Final Grade
H Sep 10	Orientation and an introduction to the course	None	None	NA	NA
T Sep 15	“Keep or discard” group activity	None	Group discussion (Formative)	In-class	0
H Sep 17	L 01 History of food safety				
T Sep 22	L 02 Risk assessment				
H Sep 24	L 02 (continued): Risk assessment				
T Sep 29	Risk assessment Online quiz (no lecture)	Risk assessment notes	Quiz 1: Open-book Online quiz available on UMLearn	September 29, 8:30 AM – September 30, by 11:30 PM (Time allowed 30 minutes)	5%
H Oct 1	L 03A Physical hazards, and Naturally occurring Chemical hazards	None	None	NA	NA

T Oct 6	L 03B Chemical hazards: Food additives	None	None	NA	NA
H Oct 8	L 03C: Chemical Hazards: Agrochemicals	None	None	NA	
T Oct 13	Debate (GMO and Organic food) No lecture	Research internet resources	Debate on UMLearn	Oct 13, 8:30 AM – Oct 14, 11:30 pm	5%
H Oct 15	L 04 Genetically modified food		None		
T Oct 20	L 05 Biological Hazards and foodborne illnesses		None		
H Oct 22	L 05 Biological Hazards and foodborne illnesses		None		
T Oct 27	Death at the Wedding Case study	Notes/internet resources	Discuss on UMLearn (2%) and Submit a report (8%)	Discussion by Oct 28, 11:30 P.M. Report by, Nov 16 by 11:30 PM	2% + 8%
H Oct 29	No lecture on Oct 27 and 29				
T Nov 3	Midterm test		Closed-book, Online test (60 multiple choice questions) Respondus monitoring and lockdown browser enabled)		35%
H Nov 5	L 06 Antibiotic resistance		None		
Nov 9-13 (M-F)	No classes, midterm break		None		
T Nov 17	L 07 Food Preservation (Industry's role in Food safety)		None		
H Nov 19	L 07 Food preservation (Industry's role in Food safety)		None		
T Nov 24	L 08 GMPs and HACCP				

H Nov 26	L 09 Mass media and Food safety		None	Create only one thread on the discussion board. No further discussion required	
T Dec 1	Critique a media report (no lecture)	Lecture notes		Dec 1, 8:30 AM- Dec 7, by 11:30 PM	5%
H Dec 3	L 10 Government's role in Food Safety		None		
	L 10 Government's role in Food Safety		None		
T Dec 8	Discuss in class Consumers' role in Food Safety, and wrap-up		None		Formative (not graded)
Dec 12-23	Final exam period			TBA	35%

Grading

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

Letter Grade	Percentage out of 100	Final Grade Point
A+	90-100	4.5
A	80-89.9	4.0
B+	75-79.9	3.5
B	70-74.9	3.0
C+	65-69.9	2.5
C	60-64.9	2.0
D	50-59.9	1.0
F	Less than 50	0

Voluntary Withdrawal

Sep. 22, 2020 Last date to drop Fall term and Fall/Winter term spanning courses with refunds

Nov. 23, 2020 Voluntary Withdrawal (VW) deadline Fall term classes

Students who did not drop the course by the deadline would be assigned a final grade.

Withdrawal courses will be recorded on official transcript.

Please refer to the [Registrar's Office](#) web page for more information. Also identify if you are willing to discuss student's progress and strategies for improvement prior the withdrawal date.

ASSIGNMENT DESCRIPTIONS

Class participation: 5%

In some random classes some questions will be asked: 5% Class participation (Need access to UMLearn during the class time). For each question you will get 1 point if you answer it correctly, 0.5 points if you answer it incorrectly, and 0 if you do not attempt it. **I will drop your worst 20% responses.** Example: if there are a total of 40 questions asked in the term, and you missed 3 questions and got 7 incorrect and 30 correct; I will drop the three 0's and five 0.5's. The total score in this case would be 31/32.

Risk assessment online quiz (on UMLearn) 5%:

Based on the risk assessment lecture, you will attempt an online quiz on UMLearn. This quiz is 5% of your grade.

Dabate 5%

You will be given a topic for debate. You will first write and defend your position about the debate topic in approximately 100 words. Then, after reading other students' views, you will debate one student who has the opposite position than yours. This debate response should be between 50-100 words. Professional language will be expected. Use of emoticons, multiple exclamation mark, slangs etc are considered unprofessional. Disrespectful behavior will be reported to the department head.

Death at the Wedding: 10%

This will be an analysis of the lecture on the topic of food borne illnesses. Use your knowledge of food borne illnesses to determine the cause of death of the bride at a wedding in the UK in the late 19th century. The expected length will be approximately 500 to 600 words. A discussion forum will be available on UMLearn where you will discuss this case study with your group members. 2% marks will be awarded for your participation in the discussion, and the remaining 8% marks will be awarded for your **individual** report.

Complete Discussion by Oct 28, 11:30 P.M.

Complete the Report by, Nov 16 by 11:30 PM (submit on umlearn under appropriate assignment folder)

Media critique 5%

You will get access to a media article on UMLearn under the discussion forums where you write about your first impression about the report. Then, you will critique the media report for its trustworthiness and provide a minimum of four characteristics of the article which will help you draw the conclusion that either the report is trustworthy or it is not. This critique should be no more than 250 words, and must be submitted as a new thread under discussion topic. Only your first submission will be graded. You need not engage in discussions with fellow students for this assignment.

Dec 1, 8:30 AM- Dec 7, by 11:30 PM

Midterm exam: 35%

Online, on umlearn

Approximately 70 Multiple choice questions.

Midterm: Syllabus "from Introduction up to biological hazards" (70 minutes). The test will be monitored, and the lockdown browser will be enabled.

Nov 3, online, during class time (11:30am-12:40 pm)

Final exam: 35%

Online, on umlearn

Format: Short answer, short essay, multiple choices, fill the blank, true/false and/or matching exams.

The test will be monitored, and the lockdown browser will be enabled.

Time: To be scheduled by the Registrar's office. TBD.

Referencing Style

Please use APA or MLA or **Harvard referencing style**.

University of Manitoba provides various resources to help students with referencing. These include:

Refworks-easy to learn; library has workshops; library has print resources like, Zotero). You will also find link to the Refworks on UMLearn.

Assignment Feedback

The assignments will be graded with online rubrics. The rubrics will not be available for you to view before you submit your work, but you will be able to see the rubrics after your work has been evaluated. We will try our best to provide the feed back within 7 days after the deadlines.

Assignment Extension and Late Submission Policy

Please complete all the assigned work in timely fashion. This will enhance your learning. For late submissions, 10% marks will be deducted for every day it is late. Should you have a genuine need to request an extension, please contact me as soon as possible, hopefully before the deadline.

UNIVERSITY SUPPORT OFFICES & POLICIES

Schedule "A"

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

Writing and Learning Support

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

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

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

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

University of Manitoba Libraries (UML)

As the primary contact for all research needs, your liaison librarian can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you may have, regarding the research process. Liaisons can be contacted by email or phone, and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject: <http://bit.ly/WcEbA1> or name: <http://bit.ly/1tJ0bB4>. In addition, general library assistance

is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage: www.umanitoba.ca/libraries.

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

Student Counselling Centre

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

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

474 University Centre or S207 Medical Services

(204) 474-8592

Student Support Case Management

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

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

520 University Centre

(204) 474-7423

University Health Service

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

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

104 University Centre, Fort Garry Campus

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

Health and Wellness

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

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

Katie.Kutryk@umanitoba.ca

469 University Centre

(204) 295-9032

Live Well @ UofM

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

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

Section (c) All students are required to respect copyright as per Canada's *Copyright Act*. Staff and

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

Section (d) Your rights and responsibilities

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

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

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

- If you have questions about your grades, talk to your instructor. There is a process for term work and final **grade appeals**. Note that you have the right to access your final examination scripts. See the Registrar's Office website for more information including appeal deadline dates and the appeal form <http://umanitoba.ca/registrar/>
- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the **Academic Integrity** regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support <http://umanitoba.ca/academicintegrity/> View the **Student Academic Misconduct** procedure for more information.
- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected to conduct yourself in an appropriate respectful manner. Policies governing behavior include the:

Respectful Work and Learning Environment

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

Student Discipline

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

Violent or Threatening Behaviour

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

- If you experience **Sexual Assault** or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The **Sexual Assault** policy may be found at:
http://umanitoba.ca/admin/governance/governing_documents/community/230.html
More information and resources can be found by reviewing the Sexual Assault site
<http://umanitoba.ca/student/sexual-assault/>
- For information about rights and responsibilities regarding **Intellectual Property** view the policy [http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy - 2013_10_01.pdf](http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy_-_2013_10_01.pdf)

For information on regulations that are specific to your academic program, read the section in the Academic Calendar and on the respective faculty/college/school web site
<http://umanitoba.ca/faculties/>

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

Student Advocacy

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

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

520 University Centre

204 474 7423

student_advocacy@umanitoba.ca