University of Manitoba
Faculty of Agricultural and Food Sciences
Department of Food Science
FOOD REQUIRES INSPECTION AT ALL STAGES FROM PRIMARY PRODUCTION TO FINAL RETAIL DISTRIBUTION IN ORDER TO ENSURE THAT REQUIRED STANDARDS OF QUALITY AND SAFETY ARE MET. THIS COURSE WILL COVER VARIOUS QUALITY CONTROL PRINCIPLES AS WELL AS SAMPLING AND INSPECTION REGIMES THAT WILL PREPARE STUDENTS TO MEET THE VARYING REQUIREMENTS OF FOOD MANUFACTURERS AND RETAILERS.
COURSE DETAILS

**Course Title & Number:** Quality Control in Foods, FOOD 4200

**Number of Credit Hours:** 3

**Class Times & Days of Week:** 1:30-2:20 P.M. M/W/F

**Location for classes/labs/tutorials:** 245 Ellis Building

**Pre-Requisites:**

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**Instructor Contact Information**

**Instructor(s) Name:** Snehil Dua

**Preferred Form of Address:** Snehil or Dr. Dua

**Office Location:** 408-Human Ecology Building

**Office Hours or Availability:** Thursdays, 1:00 P.M.-2:30 P.M.

**Phone No.** 204-474-6505 (Please DO NOT leave a message at this number).

**Email:** All email communication must conform to the Communicating with Students university policy. Snehil.Dua@umanitoba.ca I will respond to students' emails within 24 hrs on weekdays.

**Contact:** I may respond to emails on weekdays generally but if a student needs to get in touch with me over a weekend, feel free to phone me at my home phone, 204-2614512.

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**Course Description**

Undergraduate Calendar Description: Fundamentals of quality control, total quality management, and their industrial application through physical, chemical, microbiological, statistical and sensory methods will be studied. Statistical process control (SPC) will be mainly covered; required background knowledge of statistics will be reviewed briefly.

**General Course Information**

Instructional Methods: Instructional methods include a combination of lectures, class discussions and group exercises. The course will be evaluated based on assignments, tests and a final exam. Effective communication skills are necessary for successful completion of this course.
Course Goals

Food requires inspection at all stages from primary production to final retail distribution in order to ensure that required standards of quality and safety are met. This course will cover various quality control principles as well as sampling and inspection regimes that will prepare students to meet the varying requirements of food manufacturers and retailers.

Intended Learning Outcomes

I. Describe the background and current requirement for quality control and quality management systems.
   - Explain what has led to the current quality management systems
   - Outline the main requirements of a quality control system

II. Recognize the requirements necessary to ensure safe, quality food.
   - Identify conditions for inactivation of important pathogens commonly found in foods
   - Apply appropriate evaluation tools needed to produce a safe food.
   - Evaluate sanitary practices and environmental factors (i.e., Aw, pH, temperature) that control growth and response of microorganisms.
   - Describe techniques, including sensory evaluation, for determination of product quality.

III. Identify food quality specifications
   - Recognize the source and variability of raw food material and impact on food quality

IV. Prioritize attributes/problems specification in raw and processed material based on production data
   - Illustrate how processing techniques can affect product quality.
   - Predict quality of selected products.
   - Ensure government regulations are reflected in the specifications provided

V. Apply appropriate sampling plans for a given attribute and product.
   - Use statistical methods to select appropriate sample plan
   - Develop sampling plan for a given data set

VI. Construct and interpret an operating characteristics curve to effectively evaluate consumer and producer risks
   - Construct an operating characteristic curve based on statistical probabilities for a given data set.
   - Interpret the significance of a given point on the operating characteristic curve.
   - Compare different operating characteristic curves.

VII. Create control charts for attributes, a vital segment of statistical process control (SPC), to record and report QC data.

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.
Sampling Charts: ANSI/ASQ Z1.4-2008 Sampling Procedure and Tables for Inspection by Attributes are available for the course and will be used in class exercises, individual assignments and exams. These materials are licensed for use in this course only and may not be further copied or distributed in whole or in part, in any format or any means. The materials will cease to be available as soon as the course is complete. It is important that you adhere to this requirement.

Recording Class Lectures

Example: Snehil Dua and the University of Manitoba 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 (Snehil Dua) Course materials (both paper and digital) are for the participant’s private study and research.

Textbook, Readings, Materials

Required Coursepack from Ivey Publishing: Case studies for Quality Control in Foods, Food 4200. (will be available for purchase after Monday, Sept 11, 2017. Details will be available on UMLearn after Sept 11, 2017.

Supplementary Reading (suggested readings): A number of helpful references are available on-line (links posted in UM Learn) or in the University of Manitoba Libraries. They include:


Course Technology

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

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

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.

Expectations: I Expect You To
- Where ever group work is required, I expect students to work professionally and complete their share of work in time. Try to resolve your conflicts, if any, at the group level. Though all students in a group will get the same marks, but if there is enough evidence that a group member has not done his/her share of work, that student may get lower marks than the other group members.
- Students may use their computers/notebooks to take notes in the class.
- I will treat you with respect and would appreciate the same courtesy in return. See Respectful Work and Learning Environment Policy.

Academic Integrity:

Plagiarism or any other form of cheating in examinations, term tests or academic work is subject to serious academic penalty (e.g. suspension or expulsion from the faculty or university). Cheating in examinations or tests may take the form of copying from another student or bringing unauthorized materials into the exam room (e.g., crib notes, pagers or cell phones). Exam cheating can also include exam personation. (Please see Exam Personation, found in the Examination Regulations section of the General Academic Regulations). A student found guilty of contributing to cheating in examinations or term assignments is also subject to serious academic penalty.

To plagiarize is to take ideas or words of another person and pass them off as one’s own. In short, it is stealing something intangible rather than an object. Plagiarism applies to any written work, in traditional or electronic format, as well as orally or verbally presented work. Obviously it is not necessary to state the source of well-known or easily verifiable facts, but students are expected to appropriately acknowledge the sources of ideas and expressions they use in their written work, whether quoted directly or paraphrased. This applies to diagrams, statistical tables and the like, as well as to written material, and materials or information from Internet sources. To provide adequate and correct documentation is not only an indication of academic honesty but is also a courtesy which enables the reader to consult these sources with ease. Failure to provide appropriate citations constitutes plagiarism. It will also be considered plagiarism and/or cheating if a student submits a term paper written in whole or in part by someone other than him/
herself, or copies the answer or answers of another student in any test, examination, or take-home assignment.

Working with other students on assignments, laboratory work, take-home tests, or on-line tests, when this is not permitted by the instructor, can constitute Inappropriate Collaboration and may be subject to penalty under the Student Discipline By-Law.

An assignment which is prepared and submitted for one course should not be used for a different course. This is called “duplicate submission” and represents a form of cheating because course requirements are expected to be fulfilled through original work for each course.

When in doubt about any practice, ask your professor or instructor.

The Student Advocacy Office, 519 University Centre, 474-7423, is a resource available to students dealing with Academic Integrity matters.

**Students Accessibility Services**

**Student Accessibility Services**

If you are a student with a disability, please contact SAS for 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** [http://umanitoba.ca/student/saa/accessibility/](http://umanitoba.ca/student/saa/accessibility/)

520 University Centre

204 474 7423

[Student_accessibility@umanitoba.ca](mailto:Student_accessibility@umanitoba.ca)

**OTHER STUDENT SERVICES**

**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/](http://umanitoba.ca/student/academiclearning/)
You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 201 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](http://bit.ly/WcEbA1) or name: [http://bit.ly/1tJ0bB4](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](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](http://www.umanitoba.ca/libraries).

Student Counselling Centre (SCC):
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

For 24/7 mental health support, contact the Mobile Crisis Service at [204-940-1781](tel:204-940-1781).

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

**Your Rights and Responsibilities:**
As a student of the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school. The Academic Calendar http://umanitoba.ca/student/records/academiccalendar.html is one important source of information. View the sections University Policies and Procedures and General Academic Regulations.

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

- If you have questions about your grades, talk to your instructor. There is a process for term work and final grade appeals. Note that you have the right to access your final examination scripts. See the Registrar’s Office website for more information including appeal deadline dates and the appeal form http://umanitoba.ca/registrar/

- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the Academic Integrity regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support http://umanitoba.ca/academicintegrity/ View the Student Academic Misconduct procedure for more information.

- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected conduct yourself in an appropriate respectful manner. Policies governing behavior include:
  
  **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

  **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/](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. [http://umanitoba.ca/student/advocacy/](http://umanitoba.ca/student/advocacy/)

520 University Centre
204 474 7423
student_advocacy@umanitoba.ca

**Expectations: You Can Expect Me To**

- ask questions in class. I expect students to respond but I do not expect perfection.
- bring humor to the class.
- use real life examples in explaining concepts.
- repeat/clarify any part of a lecture that is not clear to you.

**Class Schedule (tentative)**

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 the – ROASS- Procedure.

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Content</th>
<th>Required Readings or any Pre-class Preparation</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept 8th</td>
<td>Orientation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sept 11</td>
<td>Introduction and characteristics of quality control</td>
<td></td>
<td></td>
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<tr>
<td>Sept 13</td>
<td>Total quality management: definition, implementation and evaluation</td>
<td></td>
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<tr>
<td>Sept 15</td>
<td>Total quality management: definition, implementation and evaluation</td>
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<tr>
<td>Sept 18</td>
<td><strong>Case Study: The Food Terminal A</strong></td>
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<tr>
<td>Sept 20</td>
<td><strong>Case study: The food terminal B</strong></td>
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<tr>
<td>Sept 22</td>
<td>Specifications: quality and safety as applied to raw materials or ingredients, processes and finished product. Taguchi loss function.</td>
<td></td>
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</tr>
<tr>
<td>Sept 25</td>
<td>Six sigma</td>
<td></td>
<td></td>
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<tr>
<td>Sept 25</td>
<td>Seven basic tools of quality</td>
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<td></td>
</tr>
<tr>
<td>Sept 27</td>
<td>Seven basic tools of quality</td>
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<tr>
<td>Sept 29</td>
<td><strong>Case study: Noram Foods</strong> Read the case</td>
<td></td>
<td>Class discussion</td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Notes</td>
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<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Oct 2</td>
<td>Global Food Safety and Quality and ISO Standards.</td>
<td>Read the ISO standards document before coming to the class.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Open book quiz (3%)</td>
<td></td>
</tr>
<tr>
<td>Oct 4</td>
<td>HACCP and relevance of HACCP to total quality management</td>
<td>Assignment 1 due (Specifications and Tools of quality, 5%)</td>
<td></td>
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<tr>
<td>Oct 6</td>
<td><strong>No class</strong></td>
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<tr>
<td>Oct 9</td>
<td><strong>HACCP case study</strong></td>
<td>Read the case</td>
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</tr>
<tr>
<td>Oct 11</td>
<td>Inspection: Effectiveness and accuracy; inspection errors</td>
<td>Case discussion</td>
<td></td>
</tr>
<tr>
<td>Oct 13</td>
<td><strong>No class</strong></td>
<td></td>
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<tr>
<td><strong>Oct 16</strong></td>
<td><strong>Case study: Beef-noodle casserole</strong></td>
<td>Read the case before class</td>
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<tr>
<td></td>
<td></td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>Oct 25</td>
<td>Operating Characteristic curve: properties and curve construction</td>
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<td></td>
</tr>
<tr>
<td>Oct 27</td>
<td>Operating Characteristic curve: properties and curve construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 30</td>
<td>Operating Characteristic curve: properties and curve construction</td>
<td>Assignment 2 due (acceptance sampling plans)</td>
<td></td>
</tr>
<tr>
<td>Nov 1</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 3</td>
<td>Midterm</td>
<td>Midterm test (30%)</td>
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<tr>
<td></td>
<td></td>
<td>Expect marks on UMLearn by Nov 10.</td>
<td></td>
</tr>
<tr>
<td>Nov 6</td>
<td>Balancing Consumer and Producer Risk</td>
<td></td>
<td></td>
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<tr>
<td>Nov 8</td>
<td>Balancing Consumer and Producer Risk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 10</td>
<td>Balancing Consumer and Producer Risk</td>
<td>assignment 3 due (Operating characteristics curve)</td>
<td></td>
</tr>
<tr>
<td>Nov 13</td>
<td><strong>Case: SCHARFFEN BERGER CHOCOLATE MAKER (A)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 15</td>
<td>Control charts for attributes: X bar R charts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Nov 17  Control charts for attributes: X bar R charts
Nov 20  Control charts for attributes: X bar R charts
Nov 22  State of control
Nov 24  Attribute charts: P chart, NP chart, C chart, U chart.
Nov 27  Attribute charts: P chart, NP chart, C chart, U chart.
Nov 29  Assignment: Control charts  In class assignment
Dec  1  Preparation for presentations.
Dec  4  Presentations (4 @10 min.)
Dec  6  Presentations (4 @10 min.)
Dec  8  Presentations (2 @10 min.) + review

**Course Evaluation Methods**

A variety of methods of evaluation will be used.

Refer students to the Assignment Description on the following page of the syllabus for Details.

<table>
<thead>
<tr>
<th>Due Date: (tentative)</th>
<th>Assessment Tool</th>
<th>Value of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 2</td>
<td>Open book quiz, in-class</td>
<td>5%</td>
</tr>
<tr>
<td>11:45 pm, Oct 4, 2017 (online)</td>
<td>Assignment 1 due, group</td>
<td>5%</td>
</tr>
<tr>
<td>Various</td>
<td>Class participation</td>
<td>10%</td>
</tr>
<tr>
<td>11:45 pm Oct 30, 2017 (online)</td>
<td>Assignment 2 due, individual</td>
<td>5%</td>
</tr>
<tr>
<td>1:30 pm, Nov 3, 2017 (in class)</td>
<td>Midterm test</td>
<td>30%</td>
</tr>
<tr>
<td>2:20 pm in class, Nov 10, 2017</td>
<td>Assignment 3 due, individual</td>
<td>5%</td>
</tr>
<tr>
<td>2:20 pm in class, Nov 29, 2017</td>
<td>In-class assignment (group)</td>
<td>5%</td>
</tr>
<tr>
<td>Week of Dec 5, 2017</td>
<td>Presentations (group)</td>
<td>10%</td>
</tr>
<tr>
<td>TBA (by University of Manitoba)</td>
<td>Final exam</td>
<td>25%</td>
</tr>
</tbody>
</table>

**Grading**

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

<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>80-89.9</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>75-79.9</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>70-74.9</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>65-69.9</td>
<td>2.5</td>
</tr>
<tr>
<td>C</td>
<td>60-64.9</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>50-59.9</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Less than 50</td>
<td>0</td>
</tr>
</tbody>
</table>

**Referencing Style**

Please use 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 Descriptions**
Take home assignment description will be posted on UMLearn at least a week before the due date. The in-class assignments will be given in class only.

**Assignment Grading Times**
First midterm and two assignment (together 30%) will be marked before the VW date (Nov 17) date which will allow students to make a decision about completing or withdrawing from the course.

**Assignment Extension and Late Submission Policy**
You will lose 10% marks for everyday your take-home assignment is late. The in-class assignments will not be accepted late.