

THE UNIVERSITY OF WESTERN ONTARIO**BRESCIA UNIVERSITY COLLEGE****School of Food and Nutritional Sciences****Foods & Nutrition 4452B (Section 530-531)**
Experimental Foods

Course Director: Dr. S. Hekmat
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Office Hours: By appointment

Classes: Mondays: 2:30-4:30PM (MRW153)
Laboratories: Mondays, 4:30-6:30PM (MRW 156)

Prerequisite (s): Food and Nutrition 3342A/B
Registration in the BSC Foods and Nutrition programs.

COURSE

DESCRIPTION: An experimental approach in the study of the physical and chemical properties of food. Objective testing and sensory evaluation of foods. Introduction to standardization of recipes and food research by investigation into specific problems.

STRESS: Sensory properties of food, sensory testing methods, statistical procedure for summarizing data as well as how to write a scientific paper, will be emphasized. Practice of recipe standardization and factors influencing the outcome of products will be presented in a written report.

PURPOSE: This course is designed to provide students with knowledge in the area of sensory evaluation of food and to make students more proficient in the standardization of recipes.

APPROACH: Through lectures, discussion, assigned readings and lab work, students will gain the knowledge and skills required for the experimental study of food.

LEARNING OBJECTIVES:

Upon successful completion of this course, students will be able to demonstrate the Brescia Competencies as follows:

1. Acquire knowledge of the fundamentals of sensory and objective evaluation of food (Critical Thinking, Inquiry and Analysis, Level 4)
2. Apply this knowledge to food evaluation in the lab (Critical Thinking, Inquiry and Analysis, Problem Solving, Level 4)
3. Recognize the principles involved in selecting appropriate sensory methods for specific projects (Critical Thinking, Inquiry and Analysis, Level 4)
4. Research, design and complete an independent research project on food evaluation (Self-Awareness and Development, Critical Thinking, Inquiry and Analysis, Level 4)
5. Demonstrate acquired knowledge through midterm and final exam testing (Critical Thinking, Inquiry and Analysis, Problem Solving, Level 4)
6. Respect the ethics as applies to conducting a sensory panel (Interpersonal Communication, Valuing, Level 4)
7. Develop critical thinking, teamwork and oral communication skills (Critical Thinking, Interpersonal Communication, Social Awareness and Engagement, Level 4)

TEXT (Required): Chambers, E. and Wolf, M. B. (Editors). 1996. Sensory Testing Methods: Second Edition. ASTM Manual Series: MNL 26. Revision of STP 434. West Conshohocken, PA.

Hekmat, S. 2019. Experimental Foods: Sensory Evaluation of Foods.

TEXTS (Optional)

1. Poste, L.M., Mackie, D.A., Butler, G. and Larmond, E. 1991. Laboratory Methods for Sensory Analysis of Food. Publication #1637. Canada Department of Agriculture.

2. O'Mahony, M. 1986. Sensory Evaluation of Food-Statistical Methods and Procedures. New York: Marcel Dekker, Inc.
3. Meilgaard, M., Civille, G.V. and Carr, B.T. 1987. Sensory Evaluation Techniques. Vol.1. Boca Raton, Fla. CRC Press, Inc.
4. Moskowitz, H.R. 1983. Product Testing and Sensory Evaluation of Foods. Westport, Conn. AVI Publishing Co.
5. Meilgaard, M., Civille, G.V. and Carr, B.T. 1987. Sensory Evaluation Techniques. Vol. 2. Boca Raton, Fla. CRC Press, Inc.
6. Moskowitz, H.R. 1987. Food Texture. New York: Marcel Dekker, Inc.
7. Thomson, D.M. 1988. Food Acceptability. UK: Elsevier Science Publishers.
8. Wheller, J.B. (Editor). 1981. Guidelines for Selection and Training of Sensory Members. STP 758. Philadelphia, P.A. American Society of Testing and Materials.

ASSIGNMENTS: Hand-in assignments will be discussed at the beginning of the semester.

GRADING:

Test (Feb. 11, 2019)	35%
Independent Project	10%
Presentation	10%
Final Exam	45%
Total	100%

**GENERAL
ADVICE:**

White uniform or lab coat

Lab Fee: - \$45.00 per student

(A receipt for payment of laboratory fees must be submitted to the instructor by the end of the second week of classes in order to continue in the course.)

SPECIFIC COURSE POLICIES:

- 1) Failure to attend at least 75% of laboratories or studios will result in failure in the laboratory or studio and an "incomplete" in the course. Successful completion of the laboratory/studio will be necessary in order to receive credit in the course.
- 2) Assignments are due at time and date noted. The mark will be reduced by 20% on assignments submitted within seven (7) days of the due time. Assignments submitted after seven days will not be accepted for marking, except with documentation to show a confirmed personal illness or a death in her/his immediate family.
- 3) There will be no make-up mid-term test for a student who has missed a test except with documentation to show a confirmed personal illness or a death in her/his immediate family.
- 4) For mark components of 10% or higher, any student who misses these requirements can request accommodation from the academic counsellors on medical or non-medical grounds with proper documentation submitted. The academic counsellors will then make the request for accommodation to the faculty as necessary.

The following policies are also enforced:

- 1) **Course prerequisites:** “Unless you have either the prerequisites for this course or written special permission from your Dean to enrol in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.”
- 2) **Attendance:** “Any student who, in the opinion of the instructor, is absent too frequently from class or laboratory periods in any course, will be reported to the Dean (after due warning has been given). On the recommendation of the department concerned, and with the permission of the Dean, the student will be debarred from taking the regular examination in the course.”
- 3) **Plagiarism:** “Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence. (See Scholastic Offence Policy in the Western Academic Calendar).

2018-19 BRESCIA UNIVERSITY COLLEGE ACADEMIC POLICIES AND REGULATIONS

1. POLICY REGARDING MAKEUP EXAMS AND EXTENSIONS OF DEADLINES

When a student requests academic accommodation (e.g., extension of a deadline, a makeup exam) for work representing 10% or more of the student's overall grade in the course, it is the responsibility of the student to provide acceptable documentation to support a medical or compassionate claim. All such requests for academic accommodation must be made through an Academic Advisor and include supporting documentation.

Academic accommodation for illness will be granted only if the documentation indicates that the onset, duration and severity of the illness are such that the student could not reasonably be expected to complete her academic responsibilities. Minor ailments typically treated by over-the-counter medications will not normally be accommodated.

Students must submit their documentation along with a request for relief specifying the nature of the accommodation being requested no later than two business days after the date specified for resuming responsibilities. In cases where there might be an extended absence or serious issue, students should submit their documentation promptly and consult their Academic Advisor for advice during their recovery period. Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, examinations, etc. Appropriate academic accommodation will be determined by the Dean's Office/Academic Advisor in consultation with the student's instructor(s). Academic accommodation may include extension of deadlines, waiver of attendance requirements for classes/labs/tutorials, arranging Special Exams or Incompletes, re-weighting course requirements, or granting late withdrawals without academic penalty

Please note that personal commitments (e.g., vacation flight bookings, work schedule) which conflict with a scheduled test, exam or course requirement are not grounds for academic accommodation.

A UWO Student Medical Certificate (SMC) is required if a student is seeking academic accommodation on medical grounds. This documentation should be obtained at the time of the initial consultation with the physician/nurse practitioner or walk-in clinic. A SMC can be downloaded from: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf . The student must request documentation sufficient to demonstrate that her ability to meet academic responsibilities was seriously affected. Please note that under University Senate regulations documentation stating simply that the student "was seen for a medical reason" or "was ill" is not adequate to support a request for academic accommodation.

The full policy on requesting accommodation due to illness can be viewed at:
http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_12

2. ACADEMIC CONCERNS

If you feel that you have a medical or personal challenge that is interfering with your work, contact your instructor and Academic Advisor as soon as possible. Problems may then be documented and possible arrangements to assist you can be discussed at the time of occurrence rather than on a retroactive basis. Retroactive requests for academic accommodation on medical or compassionate grounds are not normally considered.

If you think that you are too far behind to catch up or that your work load is not manageable, you should consult your Academic Advisor. If you consider reducing your workload by dropping one or more courses, this must be done by the appropriate deadlines (refer to the Registrar's website, <http://brescia.uwo.ca/academics/registrar-services/> or the list of official sessional dates in the Academic Calendar, see the Sessional Dates tab at <http://www.westerncalendar.uwo.ca/index.cfm?SelectedCalendar=Live&ArchiveID=>). You should consult with the course instructor and the Academic Advisor who can help you consider alternatives to dropping one or more courses. Note that dropping a course may affect OSAP eligibility and/or Entrance Scholarship eligibility.

3. ABSENCES

Short Absences: If you miss a class due to a minor illness or other problems, check your course outline for information regarding attendance requirements and make sure you are not missing a test or assignment.

Cover any readings and arrange to borrow notes from a classmate. Contact the course instructor if you have any questions.

Extended Absences: If you have an extended absence, you should contact the course instructor and an Academic Advisor. Your course instructor and Academic Advisor can discuss ways for you to catch up on missed work and arrange academic accommodations, if appropriate and warranted.

It is important to note that the Academic Dean may refuse permission to write the final examination in a course if the student has failed to maintain satisfactory academic standing throughout the year or for too frequent absence from the class or laboratory (http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#SubHeading_68).

4. SCHOLASTIC OFFENCES

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at: http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20 .

Students are responsible for understanding the nature of and avoiding the occurrence of plagiarism and other academic offences. Note that such offences include plagiarism, cheating on an examination, submitting false or fraudulent assignments or credentials, impersonating a candidate, or submitting for credit in any course without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course in the University or elsewhere. Students are advised

to consult the section on Scholastic Discipline for Undergraduate Students in the Academic Calendar.

If you are in doubt about whether what you are doing is inappropriate or not, consult your instructor, the Academic Dean's Office, or the Registrar. A claim that "you didn't know it was wrong" is not accepted as an excuse.

The penalties for a student guilty of a scholastic offence (including plagiarism) include refusal of a passing grade in the assignment, refusal of a passing grade in the course, suspension from the University, and expulsion from the University.

Plagiarism:

Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence.

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

Computer-marked Tests/exams:

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating. Software currently in use to score computer-marked multiple-choice tests and exams performs a similarity review as part of standard exam analysis.

5. PROCEDURES FOR APPEALING ACADEMIC EVALUATIONS

All appeals of a grade must be directed first to the course instructor. If the student is not satisfied with the decision of the course instructor, a written appeal is to be sent to the School Chair. If the response of the Chair is considered unsatisfactory to the student, she may then submit a written appeal to the Office of the Dean. If the student is not satisfied with the decision of the Dean, she may appeal to the Senate Review Board Academic (SRBA), if there are sufficient grounds for the appeal. For information on academic appeals you can consult your Academic Advisor or see the Student Academic Appeals – Undergraduate in the

Academic Calendar

http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_14.

Note that final course marks are not official until the Academic Dean has reviewed and signed the final grade report for the course. If course marks deviate from acceptable and appropriate

standards, the Academic Dean may require grades to be adjusted to align them with accepted grading practices.

6. PREREQUISITES

Unless you have either the prerequisites for a course or written special permission from the Dean to enroll in it, you will be removed from the course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisite(s).

7. SUPPORT

Support Services

The Brescia University College Registrar's website, with a link to Academic Advisors, is at <http://brescia.uwo.ca/academics/registrar-services/> . The website for the Student Development Centre at Western is <http://www.sdc.uwo.ca/> .

Mental Health and Wellness

Students may experience a range of issues that can cause barriers to your learning, such as increased anxiety, feeling overwhelmed, feeling down or lost, difficulty concentrating and/or lack of motivation. Services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about mental health and wellness at Brescia at <http://brescia.uwo.ca/life/mental-health-wellness/>. Students who are in emotional/mental distress should refer to Health and Wellness at Western, http://uwo.ca/health/mental_wellbeing/index.html, for information about how to obtain help for yourself or others.

Sexual Violence

All members of the Brescia University College community have a right to work and study in an environment that is free from any form of sexual violence. Brescia University College recognizes that the prevention of, and response to, Sexual Violence is of particular importance in the university environment. Sexual Violence is strictly prohibited and unacceptable and will not be tolerated. Brescia is committed to preventing Sexual Violence and creating a safe space for anyone in the Brescia community who has experienced Sexual Violence.

If you or someone you know has experienced any form of Sexual Violence, you may access resources at <http://brescia.uwo.ca/life/sexual-violence/>.

Portions of this document were taken from the Academic Calendar, the Handbook of Academic and Scholarship Policy and the Academic Handbook of Senate Regulations. This document is a summary of relevant regulations and does not supersede the academic policies and regulations of the Senate of the University of Western Ontario.

