

Brescia School of Food and Nutritional Sciences

**FN 1070A Introductory Human Nutrition /
FN 2070A Fundamentals of Human Nutrition
Fall 2026**

Campus Support

Western University is committed to a **thriving campus**. For help with:

- Both physical and mental health, go to [Wellness & Wellbeing](#)
- Studying with disabilities, go to [Accessible Education](#)
- Writing skills, go to the [Writing Support Centre](#)
- Learning skills and strategies, go to [Learning Development & Success](#)
- Contacting the ombudsperson, go to the [Office of the Ombudsperson](#)



Your course coordinator can also **guide you** to available campus resources and/or services.

Technical Requirements



Stable internet connection



Laptop computer



Calculator

Important Dates

Classes Begin	Reading Week	Classes End	Study day(s)	Exam Period
September 9	October 10-18	December 9	December 10	December 11–22

September 30, 2026, is National Day for Truth and Reconciliation and is a non-instructional day
November 30, 2026: Last day to withdraw from a first-term half course without academic penalty

Contact Information

***Course Email – please use this email for any questions related to the course
fn1070@uwo.ca

Course Coordinator/instructor	Contact Information	Office Hours
Jasna Twynstra	jasna.twynstra@uwo.ca	By appointment

Teaching Assistant(s)	Contact Information	Office Hours
TBD		

NOTE: All course information including grades, assignment outlines, deadlines, etc. are available via [OWL Brightspace](#). Download the Brightspace Pulse App to stay up-to-date on course communication and enable your notification settings within “Communications” in the top toolbar. Check the website regularly for course announcements. If you need assistance, visit [OWL Brightspace Help](#) or contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

Calendar Course Description (including prerequisites/anti-requisites):

FN 1070A – Introductory Human Nutrition

An introductory study of food and nutrition, with a particular emphasis on nutrient sources, physiological roles, including dietary requirements, and impact on health.

Antirequisite(s): [Foods and Nutrition 2070A/B](#).

Extra Information: 3 lecture hours. Grade 11 (or higher) Biology and Chemistry are highly recommended as preparation for this course. Cross-listed with [Foods and Nutrition 2070A/B](#).

FN 2070A – Fundamentals of Human Nutrition

An introductory study of food and nutrition, with a particular emphasis on the role of diet and nutrients in supporting health and preventing the development of nutritional deficiencies and disease. Students have the opportunity to independently explore and conduct an analysis of a nutrient-health relationship.

Antirequisite(s): [Foods and Nutrition 1070A/B](#).

Extra Information: 3 lecture hours. Grade 11 (or higher) Biology and Chemistry are highly recommended as preparation for this course. Cross-listed with [Foods and Nutrition 1070A/B](#).

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may 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.

NOTE: If you wish to enroll in this course without the stated pre-requisite(s), you must obtain written approval from the course instructor. The approval should then be forwarded to your academic counsellor.

Delivery Mode: Blended

Component	Date(s)	Time
Lecture 001 (In-person)		
Online Component	Asynchronous	N/A

Learning Outcomes

Upon successful completion of this course, you will be able to:

1. Identify sources of micronutrients, and macronutrients in food and non-nutrient functional components in food.
2. Demonstrate knowledge of government policy in regulating food products in Canada including food labels and food guide.
3. Demonstrate understanding of the role of nutrients and other food components for health.
4. Demonstrate understanding of the processes of metabolism including ingestion, digestion, absorption and excretion.
5. Demonstrate understanding of current nutrition recommendations, dietary guidelines and factors affecting energy balance in determining dietary requirements
6. Demonstrate understanding of how deficiencies and toxicities of nutrients affect health and the role of dietary supplements.
7. Develop skills for finding reliable information related to food and nutrition.

Course Content and Schedule

Lecture Schedule

Week	Date	Topic	Study Material
1	Sept 10	Introduction to Course and Nutrition	Chapter 1
2	Sept 17	Nutrition Assessment & Planning a Healthy Diet	Chapter 1 & 2
3	Sept 24	Digestion/Absorption	Chapter 3
4	Oct 1	Carbohydrates	Chapter 4
5	Oct 8	Carbohydrates & Fats	Chapters 4 & 5
	Oct 15	Reading Week	
6	Oct 22	Fats	Chapter 5
7	Oct 29	Protein	Chapter 6
8	Nov 5	Midterm (covers weeks 1-7)	Weeks 1-7
9	Nov 12	Fluids and Electrolytes	Chapter 11
10	Nov 19	Antioxidants	Chapter 12
11	Nov 26	Energy Metabolism	Chapters 10
12	Dec 3	Blood Health	Chapter 14
13	Dec 10	Bone Health	Chapter 13
	TBD	Final Exam – exam is cumulative	Weeks 1-13

Online Component Schedule

Week	Reading Material	Content	Quiz Due
1	No online content this week		
2	Chapter 1 related content as posted on Brightspace	Quiz 1	Sept 18
3	Chapter 2 related content as posted on Brightspace	Quiz 2	Sept 25
4	Chapter 3 related content as posted on Brightspace	Quiz 3	Oct 2
5	Library Lecture		
	Reading Week		
6	Library Lecture	Quiz 4	Oct 23
7	Chapter 5 related content as posted on Brightspace	Quiz 5	Oct 30
8	Chapter 6 related content as posted on Brightspace	Quiz 6	Nov 6
9	Chapter 11 related content as posted on Brightspace	Quiz 7	Nov 13
10	Chapter 12 related content as posted on Brightspace	Quiz 8	Nov 20
11	Chapter 13 related content as posted on Brightspace	Quiz 9	Nov 27
	Chapter 14 related content as posted on Brightspace	Quiz 10	Dec 4

Course Materials You Must Acquire and Their Costs

Textbook: Hammond, G., O'Connor, C., Piche, L.A., Whitney, E.N., and Rolfes, S.R. (2023). Understanding nutrition (3rd Can ed.). Toronto, ON: Nelson Education Ltd.

- Available in hard copy or as an e-textbook at the Western Bookstore at https://bookstore.uwo.ca/textbook-search?campus=UWO&term=W2025A&courses%5B0%5D=200_UW/FDN1070A
- Cost: \$\$\$\$\$
- Students need to purchase this edition (can be second-hand). Older editions will not be sufficient.

Other Course Materials

Additional Readings/Resources

- Additional course readings beyond the textbook chapters listed above may be posted on OWL Brightspace
- Cost: \$0

Calculator

- You will need a basic calculator for this course. Can be purchased anywhere at sells calculators. A calculator sufficient for this course should cost approximately \$15 to \$35.

Assessments and Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

Assessment	Format	Weight	Due Date	Flexibility	Learning Outcome
Midterm	Multiple choice	35%	Nov 5, 2026	None ¹	All
Quizzes	Multiple choice	2% each	Throughout	All quizzes are optional ²	All
Final Exam	Multiple choice	45%	Final Exam Period	None	All

Notes:

1. This assessment is considered central to the assessment of learning outcomes in this course. **Students must provide documentation for any absence from this evaluation.** Following receipt of approved accommodation from the counselling office, you must complete the makeup assessment as follows: Thursday, Nov 19th, 2026, at 1:30pm (Location TBD). Please note that there is only one makeup assessment for the midterm. The makeup midterm will differ from the originally scheduled midterm. **As the makeup assessment is tied to the midterm, you must provide documentation for any absence from the makeup. Failure to receive an academic consideration for a missed midterm or makeup will result in a grade of zero on that evaluation.** Students approved to miss the midterm and the makeup will have the weight of this assessment transferred to the final exam. Students must not provide medical or compassionate documentation to the instructor.

2. These online quizzes will be multiple choice and open-book examinations. It is expected that you will do these quizzes individually, and not with your classmates. You will have 60 minutes to complete each quiz, starting from the time you first open the quiz. You have only one attempt at each quiz. Each quiz may be submitted only once. These quizzes are optional. Each quiz is worth 2% of the total grade and must be submitted by 11:59pm EST on the dates noted within the course schedule. Late quizzes will not be accepted, nor will makeup tests be given. No academic consideration is required for this test. The value of any missed quizzes will be distributed amongst all other assessments in the course (i.e., not just amongst the optional online quizzes). ***This means that you cannot seek academic consideration for missed online quizzes, because academic consideration will automatically be applied to any missed quiz (in the form of re-weighting the remainder of your assessments).***

General information about assessments

- All quizzes are due at 23:59 EST unless otherwise specified
- After an assessment is returned, students should wait 24 hours to digest feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days.
- Requests for regrading must include a written explanation and evidence showing how the work meets the assignment criteria or rubric. Requests without a clear justification will not be considered.
- Prior to the filing of a written request for relief, you must attempt to resolve the concern regarding a mark or grade through informal consultation with the instructor. If you are dissatisfied with the decision of the instructor or you do not receive a decision from the instructor, a written request for relief must be submitted to the Undergraduate Chair of the School offering this course, within three (3) weeks from the date that the mark was issued.

The table below outlines University-wide grade descriptors.

Letter grade	Number grade	Description
A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail

Rounding of Grades (for example, bumping a 79 to 80%)

This is a practice some students request. The final grade documented is the grade that you have achieved. There is no rounding to the next grade level, or 'giving away' of marks. Please don't ask me to do this for you; the response will be "please review the course outline where this is presented".

Scholastic offences are taken seriously and students are directed to read the policy on Scholastic Discipline for Undergraduate Students.

Information about late or missed assessments:

- No course-specific condition

INC (Incomplete Standing): If a student has been approved by the Academic Advising Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work. Students may request permission from Academic Advising to carry a full course load for the term the incomplete course work is scheduled.

SPC (Special examination): If a student has been approved by the Academic Advising Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup exam or the student misses the makeup exam for reasons approved by the Academic Advising Office, the student will write the exam the next time the course is offered. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Types of Examinations](#) policy.

Academic Policies and Statements

Support Services

There are various support services around campus and these include, but are not limited to:

1. Academic Support and Engagement - <http://academicsupport.uwo.ca>
2. Wellness and Well-being - <https://www.uwo.ca/health/>
3. Registrar's Office - <http://www.registrar.uwo.ca/>
4. Ombuds Office - <http://www.uwo.ca/ombuds/>

The websites for Registrarial Services (<http://www.registrar.uwo.ca>), and the same for affiliated university colleges when appropriate, and any appropriate Student Support Services (including the services provided by the USC listed here: <http://westernusc.ca/services/>) and the Student Development Services, should be provided for easy access.

Students who are in emotional/mental distress should refer to Mental Health@Western (<https://www.uwo.ca/health/>) for a complete list of options about how to obtain help.

Statement on Gender-Based and Sexual Violence

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at: https://www.uwo.ca/health/student_support/survivor_support/get-help.html.

Statement on Harassment and Discrimination

Western is committed to providing a learning and working environment that is free of harassment and discrimination. All students, staff, and faculty have a role in this commitment and have a responsibility to ensure and promote a safe and respectful learning and working environment. Relevant policies include Western's Non-Discrimination/Harassment Policy (M.A.P.P. 1.35) and Non-Discrimination/Harassment Policy – Administrative Procedures (M.A.P.P. 1.35). Any student, staff, or faculty member who experiences or witnesses' behaviour that may be harassment or discrimination **must report the behaviour** to the Western's Human Rights Office. Harassment and discrimination can be human rights-based, which is also known as EDI-based, (sexism, racism, transphobia, homophobia, islamophobia, xenophobia, antisemitism, and ableism) or non-human rights-based (personal harassment or workplace harassment).

Student Code of Conduct

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be

imposed and set out the disciplinary procedures that the University will follow. For more information, visit <https://www.uwo.ca/univsec/pdf/board/code.pdf>

Absence from Course Commitments

Students must familiarize themselves with the Policy on [Academic Consideration – Undergraduate Students in First Entry Programs](#)

Students missing course work for medical, compassionate, or extenuating circumstances can request academic consideration by completing a request at the [central academic consideration portal](#). Students are permitted one academic consideration request per course per term **without** supporting documentation. Note that supporting documentation is **always** required for academic consideration requests for examinations scheduled by the office of the registrar (e.g., December and April exams) and for practical laboratory and performance tests (typically scheduled during the last week of the term).

Students should also note that the instructor may **designate** one assessment per course per term that requires supporting documentation. This designated assessment is described elsewhere in this document. Academic consideration requests may be denied when flexibility in assessment has already been included. Examples of flexibility in assessment include when there are assessments not required for calculation of the final grade (e.g. 8 out of 10 quizzes), when there is flexibility in the submission timeframe (e.g. 72 hour no late penalty period), or when timed assessments (e.g., quizzes) are available over an extended period of time (e.g., when you are given a 72 hour time period to start – and finish – the assessment).

Please note that academic considerations in this course are granted by the academic advisors in your home unit and implemented by the instructor of this course in accordance with information presented in this course syllabus. Supporting documentation for academic considerations for absences due to illness should use the [Student Medical Certificate](#) or, where that is not possible, equivalent documentation by a health care practitioner. If your absence relates to accommodations that are already supported by [Accessible Education](#), please work with your accessible education counsellor regarding your missed course work.

Accommodation for Religious Holidays

Students should review the policy for [Accommodation for Religious Holidays](#). Where a student will be unable to write examinations and term tests due to a conflicting religious holiday, they should inform their instructors as soon as possible but not later than two weeks prior to writing the examination/term test. In the case of conflict with a midterm test, students should inform their instructor as soon as possible but not later than one week prior to the midterm.

Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examination dates. The Faculty of Health Sciences has set School-specific dates for these Special Examinations. Please speak with your instructor about the date on which the Special Examination for this course will be held.

Scholastic Offences

Scholastic offences are taken seriously and students are directed to read the policy on [Scholastic Discipline for Undergraduate Students](#).

Plagiarism

Student work is expected to be original. Plagiarism is a serious academic offence and could lead to a zero on the assignment in question, a zero in this course, or your expulsion from the university. You are plagiarizing if you insert a phrase, sentence or paragraph taken directly from another author without acknowledging that the work belongs to him/her. Similarly, you are plagiarizing if you paraphrase or summarize another author's ideas without acknowledging that the ideas belong to someone else. All 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 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 Western University and Turnitin.com (www.turnitin.com).

For group assignments, all members share responsibility for academic integrity. Plan your work so the group has time to review the full submission and ensure all sources are appropriately used and cited. In the absence of a scholastic offence, everyone gets the same mark, so work with the rest of your group in a proactive fashion.

Use of Artificial Intelligence for the Completion of Course Work

Within this course, you may only use artificial intelligence tools (e.g., "ChatGPT") in ways that are specifically authorized by the course instructor. All submitted work must reflect your own thoughts and independent written work.

Re-submission of Previously Graded Material

Without the explicit written permission of the instructor, you may not submit any academic work for which credit has been obtained previously, or for which credit is being sought, in another course or program of study in the University or elsewhere.

Use of Statistical Pattern Recognition on Multiple Choice 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.

Accessibility Statement

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#). If you think you may qualify for ongoing accommodation (e.g. separate room to write exams, flexibility with deadlines, etc.) that will be recognized in all your courses, we encourage you to visit [Accessible Education](#) for more information.

Correspondence Statement

The centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner. Students are further expected to attend to announcements presented through Brightspace, and to read emails generated in this way.

Use of Electronic Devices

During Exams

Unless you have medical accommodations that require you to do so, or explicit permission from the instructor of the course, you may not use any electronic devices (e.g., cell phones, tablets,

cameras, smart glass, smart watches, or iPods) during ANY tests, quizzes, midterms, examinations, or other in-class evaluations. **These devices MUST either be left at home or with your belongings at the front of the room. They MUST NOT be at your test/exam desk or in your pocket. Any student found with a prohibited device will be referred for investigation of a Scholastic Offence, per the policy listed above. The typical first-offence penalty for possession of a prohibited device is zero on the test or exam.**

During Lectures and Tutorials

Although you are welcome to use a computer during lecture and tutorial periods, you are expected to use the computer for scholastic purposes only, and refrain from engaging in any activities that may distract other students from learning. From time to time, your professor may ask the class to turn off all computers, to facilitate learning or discussion of the material presented in a particular class.

Copyright and Audio/Video Recording Statement

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. Unless explicitly noted otherwise, you may not make audio or video recordings of lectures – nor may you edit, re-use, distribute, or re-broadcast any of the material posted to the course website.

Contingency Plan for an In-Person Class Pivoting to 100% Online Learning

In the event of a situation that requires this course to pivot to online content delivery, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on Brightspace for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.

Note that disruptive behaviour of any type during online classes, including inappropriate use of the chat function, is unacceptable. Students found guilty of Zoom-bombing a class or of other serious online offenses may be subject to disciplinary measures under the Code of Student Conduct.

Online Proctoring

Tests and examinations in this course may be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide **personal information** (including some biometric data) and the session will be **recorded**. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

Academic Appeals and Scholastic Offences

Students can file a **request for relief from academic decisions** if the request is based on one or more grounds listed in the policy. Students can read more about the policy [here](#) and a link to the procedures is listed in the Support Services sections of this document.

Students may **appeal** some academic and scholastic disciplinary decisions by a Dean or their designate, to the Senate Review Board Academic (SRBA). Students can read more about the policy [here](#) and a link to the procedures is listed in the Support Services section of this document.