



FOOD*4090 Functional Foods and Nutraceuticals

Winter 2021

Section(s): C01

Department of Food Science

Credit Weight: 0.50

Version 1.00 - January 05, 2021

1 Course Details

1.1 Calendar Description

The course examines the relation of functional foods and nutraceuticals (FFN) to food and drugs. The safety and efficacy of individual FFN products, and the regulatory issues that influence the development and commercialization of FFN in global markets are emphasized. Also listed as NUTR*4090.

Pre-Requisites: NUTR*3210

Equates: NUTR*4090

1.2 Course Description

The course examines the relation of functional foods and nutraceuticals (FFN) to foods and drugs. The safety and efficacy of individual FFN products, and the regulatory issues that influence the development and commercialization of FFN in global markets are emphasized. (Also listed as FOOD*4090.)

1.3 Timetable

Tuesdays and Thursdays 10:00-11:20am. Materials will be provided through Courselink. There will be synchronous lectures during this time but not every session so please consult the schedule.

1.4 Final Exam

There is no final exam for the course.

2 Instructional Support

2.1 Instructional Support Team

Instructor: Samar Hamad

Email: hamads@uoguelph.ca
Office Hours: By appointment.

Instructor: Paul Spagnuolo
Email: pspagnuo@uoguelph.ca
Telephone: +1-519-824-4120 x53732
Office: FS 118
Office Hours: By appointment

3 Learning Resources

3.1 Required Resources

Nutraceuticals and Human Health: The Food-to-supplement Paradigm (Textbook)

<https://pubs.rsc.org/en/content/ebook/978-1-78801-416-8>

CourseLink (Website)

<https://courselink.uoguelph.ca/shared/login/login.html>

There is a CourseLink website for the course. All materials needed for class will be posted on this site. The CourseLink website will also be very valuable as a learning tool if you contribute to on-line discussions.

Literature readings will be required. If you are unsure of how to download articles from journal citations, or are having difficulty, you might want to check with the library - <http://www.lib.uoguelph.ca/ask-us>.

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Discuss what defines functional foods and nutraceuticals (FFN), and use this understanding to analyze a variety of foods and products.
2. Discuss the regulatory issues pertaining to functional foods and nutraceuticals, including an in-depth understanding of Health Claims and how they are made. Critically evaluate current and proposed health claims based on rigorous evidence.
3. Explain the various research tools used to determine the efficacy of FFN and be able to apply these concepts to new

situations. 4. Understand issues related to the development and commercialization of FFN products, and creatively apply these concepts to emerging products. 5. Explain current state-of-the-knowledge with regards to the use of FFN for risk reduction and treatment of chronic diseases, by critically evaluating the evidence used to reach these conclusions. 6. Be aware of research needs in the continuing evolution of FFN.

5 Teaching and Learning Activities

5.1 Lecture

Topics: Please consult the tentative schedule in Courselink.

6 Assessments

6.1 Assessment Details

Exam 1 (25%)

Date: Thu, Jan 28

Exam 2 (25%)

Date: Thu, Feb 25

Exam 3 (25%)

Date: Tue, Mar 16

Exam 4 (25%)

Date: Tue, Apr 6

7 University Statements

7.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

7.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

7.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

7.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

7.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

For Guelph students, information can be found on the SAS website
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

7.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community-faculty, staff, and students-to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

7.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

7.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars
<https://www.uoguelph.ca/academics/calendars>

7.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

7.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.
