

COURSE OUTLINE		
TERM: Fall 2021	COURSE NO: KINE 312	
INSTRUCTOR:	COURSE TITLE: Food as Medicine to Prevent and Treat Disease	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS: 3.0
OFFICE HOURS:		
COURSE WEBSITE:		

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

COURSE FORMAT

Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITES

45 credits of 100-level or higher coursework; and HKIN/KINE 112 or BIOL 202

CALENDAR DESCRIPTION

This course will explore the origins and safety of the food supply and will progress to discuss the role that nutrition has in the prevention and treatment of common degenerative diseases. Special emphasis will be directed toward preventing these chronic conditions and establishing lifelong healthy eating habits.

COURSE NOTE

KINE 312 is an approved Science and Technology course for Cap Core requirements.

REQUIRED TEXTS AND/OR RESOURCES

Coulston, A. M., Boushey, C.J., & Ferruzzi, M. (2017). *Nutrition in the Prevention and Treatment of Disease* (4th edition). Amsterdam, NL: Elsevier Publishing.

COURSE STUDENT LEARNING OUTCOMES

On successful completion of this course, students will be able to do the following:

1. **Explain** and **compare** the origins of our food supply and the manner and degree in which it is transported and processed.
2. **Analyze** the developmental origins of chronic disease.
3. **Discuss** the relationship between nutrition and the prevention and treatment of diseases discussed including: cancer, diabetes, cardiovascular disease, etc.

4. **Illustrate** the health benefits of phytochemicals.
5. **Design** a nutritional plan that outlines choices that will create health and longevity.

Students who complete this Science and Technology course will be able to do the following:

1. Apply numerical and computational strategies to solve problems
2. Assess the impacts of human activity on natural systems and articulate ways in which environmental sustainability may be achieved
3. Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).
4. Explain how scientific inquiry is based on investigation of evidence and evolves based on new findings
5. Participate in scientific inquiry and communicate the elements of the process, including making careful and systematic observations, developing and testing a hypothesis, analyzing evidence, and interpreting results

COURSE CONTENT

WEEK	TOPIC (S)
1	<ul style="list-style-type: none"> Food Supply: Where our Food Comes From, Transportation & Processing
2	<ul style="list-style-type: none"> Food Processing, Enrichment & the Effect on Food Influences from the Government, Lobbying & Special Interest Groups
3	<ul style="list-style-type: none"> History, Technology, Economics & Physical Effects of the Ingestion of Genetically Modified Foods History, Technology, Economics & Physical Effects of the Ingestion of Organic Foods
4	<ul style="list-style-type: none"> The Role of Short Term & Unresolved Inflammation in Chronic Disease Intestinal Bacteria & Their Role in Health MIDTERM
5	<ul style="list-style-type: none"> Type II Diabetes: Genesis, Prevention & Treatment
6	<ul style="list-style-type: none"> Obesity: The Multifactorial Issues, its Prevention & Treatment The Role of Macronutrients in Obesity Proliferation
7	<ul style="list-style-type: none"> Exercise, Behaviour Modification & Dieting & Their Effect on Obesity MIDTERM
8	<ul style="list-style-type: none"> Diet & Physical Activity & Their Role in the Prevention & Treatment of Cardiovascular Diseases
9	<ul style="list-style-type: none"> Diet & its Role in Cognitive Decline & Neurodegenerative Disease
10	<ul style="list-style-type: none"> Cancer: Genesis, Prevention & Treatment
11	<ul style="list-style-type: none"> Foods & Food Preparation Methods Associated with Cancer

12	<ul style="list-style-type: none"> The Protective & Possibly Reversing Effects of Food & Other Nutrients
13	<ul style="list-style-type: none"> Make Up Class
14 - 15	FINAL EXAM PERIOD

EVALUATION PROFILE

Assessment	% of Final Grade	Individual/Group
Midterm Examination #1	20%	Individual
Midterm Examination #2	25%	Individual
Assignments	25%	Individual/Group
Final Examination	30%	Individual
Total		

GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

Incomplete Grades

Grades of incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

Late Assignments

Assignments are due at the beginning of the class on the due date listed. Any late assignment will be penalized 10% per day unless otherwise discussed with the instructor.

Missed Exams/Quizzes/Labs etc.

Make-up exams, quizzes and/or tests are given at the discretion of the instructor. They are generally given only in medical emergencies or severe personal crises. Some missed labs or other activities may not be able to be accommodated. Please consult with your instructor.

Attendance

Regular class attendance, and participation in course activities and assignments, is expected and likely essential to successfully achieving the course learning outcomes. Students are responsible for any and all content and instructions communicated during scheduled classes, in course handouts, and (if applicable) via course e-mail and websites. In cases where participation by all students is essential for conducting the planned instructional activities, attendance may be mandatory.

English Usage

Students are expected to proofread all written work for any grammatical, spelling and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

Electronic Devices

Students may use electronic devices during class for note-taking and research purposes only.

On-line Communication

Outside of the classroom, instructors will (if necessary) communicate with students using either their official Capilano University email or eLearn; please check both regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

UNIVERSITY OPERATIONAL DETAILS**Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilanou.ca/student-life/>

Capilano University Security: download the [CapU Mobile Safety App](#)

Policy Statement (S2009-06)

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy and procedures S2017-05 Academic Integrity for more information: <https://www.capilanou.ca/about-capu/governance/policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence and Misconduct Policy and B.401.1 Sexual Violence and Misconduct Procedure (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

DEPARTMENT OR PROGRAM OPERATIONAL DETAILS

Participation

This mark, if included as part of the assessment items by the instructor, is based on both the frequency and quality of the student's comments, questions, observations, and involvement, with the emphasis on quality. The quality is determined by, among other things, the relevance, insight and clarity of remarks. Preparing the required readings will support a student's ability to participate. The participation mark is also influenced by professionalism (as described below), attitude and punctuality.

Professional Behaviour

Students must demonstrate a professional attitude and behaviour toward work, fellow students and their instructors. Each student should demonstrate reliability, respect for and cooperation with colleagues. A willingness to work calmly and courteously under difficult conditions as well as a determination to achieve first-class work while meeting deadlines is necessary. Students should have respect for equipment and systems. Students should display a constructive response to criticism. Professional behaviour includes appropriate language use. Appropriate language use involves using respectful, moderate, and inclusive language at all times.

Copyright Policy

Students are expected to familiarize themselves with and abide by the University's Copyright Policy. The University's Copyright Policy is published on the University website.