

2017-9 NFS284 Basic Human Nutrition Course Syllabus

1) Course Description:

An introductory course to provide the fundamentals of human nutrition to enable students to understand and think critically about the complex interrelationships between food, nutrition, health and environment.

2) Recommended Preparation:

BIO120H1, BIO130H1, CHM138H, CHM139H/CHM151Y/CHM135H, CHM136H

3) Learning objectives:

By the end of this course you will be able to:

- a) assess the quality of your diet and use Canada's Food Guide to plan healthy meals.
- b) describe the types of studies used in nutrition research and recognize their strengths and limitations
- c) explain the functions of essential nutrients
- d) describe the relationship between diet and chronic disease

4) Course Staff:

Instructor: Debbie Gurfinkel: debbie.gurfinkel@utoronto.ca 416-978-3621

Office: FG142, 150 College St. **Office Hours:** Fri 1-5 pm Sept 8-Dec 8, 2017 inclusive, except Sept 22 (office hours cancelled). If you cannot make Friday hours, please e-mail for an appointment at another time.

Thomas Wolever: Instructor: thomas.wolever@utoronto.ca

By appointment.

5) Course Time, Location, and Website:

Lectures: Monday 11 AM – 1 PM & Wed 12-1 PM: MS2158

Course website: available on your Portal page in Blackboard

6) Textbook:

Copies of the textbook can be purchased in the bookstore and are also available in the library. Please note that we are using the 2nd Canadian Edition of the textbook; the 1st edition is also suitable, with some limitations. The American edition is NOT suitable.

E-book (can also be purchased on publisher's website: <http://ca.wiley.com/WileyCDA/>)

Wiley E-Text

Smolin, Grosvenor, & Gurfinkel

Nutrition: Science and Applications, 2nd Canadian Edition

ISBN : 978-1-119-04781-0

January 2015, ©2015

Loose-leaf

Smolin, Grosvenor, & Gurfinkel

Nutrition: Science and Applications, 2nd Canadian Edition Binder Ready Version

ISBN : 978-1-119-04551-9

December 2014, ©2015

Hardcover

Smolin, Grosvenor, & Gurfinkel

Nutrition: Science and Applications, 2nd Canadian Edition

ISBN : 978-1-118-87838-5

December 2014, ©2015

7) Blended Course Format:

The instructors of this course are currently in the process of converting the format of NFS284 from a traditional lecture course to a blended format. The main characteristic of a blended course is that part of the course is in the form of online resources, which students study independently, and part of the course takes place as face-to-face (F2F) lectures.

Two-thirds of the course (that portion of the course taught by Dr. Gurfinkel) is in this format. The content covered online is basic and straightforward material, which students can study independently, outside of class.. It is available in the form of “background documents,” which are posted on Blackboard and are accompanied by self-assessment questions, (not for grades), to help consolidate student learning. In addition to the background documents, short readings from the textbook are also assigned.

Placing the more basic material online also frees up time during F2F lectures for discussion of more controversial aspects of nutritional sciences. It is hoped that students will find this content interesting and leave the course with a better understanding of the complexities of human nutrition and the nutrition research process.

The course schedule below lists the lecture topics and the associated background documents and textbook readings. Students are strongly urged to follow the recommended reading schedule, especially, for the background documents. If you do not keep up with these readings you will not understand the F2F lectures.

Term tests and the final exam are based on the content of the lectures, background documents and textbook readings.

8) Course Schedule

Date	Lecture Topics	Background Documents	Textbook Readings (numbers match reading list below)
Sept 11 & 13	Dr. Gurfinkel: Course Overview Introduction to Nutrition (ch1) Dietary Reference Intakes (ch2)	Read before Sept 18 : Introduction to Canada’s Food Guide (ch 2)	1
Sept 18 & 20	Dr. Gurfinkel: Canada’s Food Guide Controversies (Ch2) Food Labelling (ch2)	Read before Sept 25 : Physiology Fundamentals (ch 3)	3
Sept 25 & 27	Dr. Gurfinkel: Nutrition Research (ch1) Digestive System (ch 3)	Read before Oct 2 : Natural Health Products (F5 after ch11)	2,4
Oct 2 & 4	Dr. Gurfinkel: Food Safety (ch17), Food Intake Assessment (ch1) Natural Health Products (F5 after ch11) Oct 4: Dr. Wolever: Carbohydrates 3-day food record: Due Friday-Oct 6 online at 9 AM		10 5,6
Oct 9 & 11	Oct 9: No class – Thanksgiving Oct 11: Dr Wolever: Carbohydrates (Ch 4) & also Including Focus on Obesity, Metabolism, and Disease Risk (after ch7): F2.1: Obesity and type-2-diabetes & Lifecycle Nutrition: Ch 14.1:The Physiology of Pregnancy: Complications of Pregnancy: Gestational Diabetes Mellitus		
Oct 16 & 18	Oct 16: TERM TEST 1 on all material covered from Sept 12 to Oct 2 inclusive; test during scheduled class period Oct 18: Dr Wolever Carbohydrates		
Oct 23 & 25	Dr. Wolever: Carbs & Lipids (ch5) Science Writing Quiz Friday-Oct 27- online at 9 AM	Read before Nov 1: Energy Expenditure and Exercise	7
Oct 30 & Nov 1	Oct 30: Dr. Wolever: Protein (ch6) Nov 1: Dr G: Consequences of Obesity (F3 after ch7) Essay Assignment-Friday-Nov 3-online at 9 AM		8, 9 11, 12
Nov 6 & 8	November Break: No classes		

Nov 13 & 15	Nov 13: TERM TEST 2: on all material covered by Dr. Wolever Dr. Gurfinkel: Nov 15: Food Intake Regulation and Strategies for Weight Reduction (ch 7)	Read before Nov 22: Introduction to Vitamins	13
Nov 20 & 22	Dr Gurfinkel: Weight Management through the Lifecycle: (ch 14, 15, & 16) Water-soluble Vitamins (ch 8)	Read before Nov 27: How Vitamin C & Vitamin E Function Together; Water; Introduction to Minerals	14,15,16
Nov 27 & 29	Dr Gurfinkel: Fat-soluble vitamins (ch 9) Water & Electrolytes (ch 10) Major Minerals and Bone health (ch 11)	Read before Dec 4: Iron, Zinc, Copper Interaction	17
Dec 4 & 6	Dr G: Ch12: Minor Minerals Focus on Integrating Nutrient Function End of term summation		

9) Required textbook readings

During lectures & as part of the background documents, readings from various sections of the textbook will be assigned. Students are expected to study these topics independently; the term tests and final exam will include questions on these readings. They are listed below. Pages beginning with "A" refer to the appendix of the textbook.

Number	Textbook Section:	Page 1e	Page 2e
1	F4: Focus on Phytochemicals	402-408	403-408
2	2.4: Critical Thinking: Should Canadians eat according to Canada's Food Guide or the Mediterranean Diet	62	58
3	2.3 Canada's Food Guide Additional Statements	57 & A44	50 & A34-35
4	3.3: Composition of Gastric Juices and Science Applied: Discovering what causes ulcers	95, 105	92-93, 102-103 & A45
5	4.6: Critical Thinking Dietary Fibre, Glycemic Index, and Type-2-Diabetes	146 & A45	144 & A36
6	4.7: Table 4.3 & Label Literacy: The Scoop on Sugar	152, 153	151, 152
7	5.6: Critical Thinking: Lowering the Risk of Heart Disease	-	199 & A36-37
8	5.7 Label Literacy: Choosing Lean Meat	200	208
9	6.5 Label Literacy: Is it safe for you?	242	248
10	7.10 Your Choice: Can a Weight Loss Supplement Help	304-305	309
11	7.3 Estimating Energy needs: Measuring Energy Expenditure & Table 7.5	272-274	278- 280
12	7.5 Guidelines for a healthy body weight: Assessing Body Composition	277-278	284-285
13	13.3 Critical Thinking: Benefits of Interval training	551 & A51	541 & A43
14	Chapter 15: Chapter Opener & Case Study Outcome	622 & 652	609 & 640
15	F7 Focus on Eating Disorders	658-673	644-659
16	8.1 Your Choice: To Supplement or Not to Supplement (2e) Or 9.5 Label Literacy: Think before you Supplement (1e)	394-395	329
17	10.3 Science Applied: A Total Dietary Approach to Reducing Blood Pressure Correction: 2e: bar graph pg 428: blue bar = control diet; pink = DASH diet	433-434	428-429
18	Chapter 2: Section 2.2 & 2.3 May be useful for assignment: 3-day food record	42-60	38-56

10) Assessment:

Assignment / Assessment	Due date	Weight (%)
Assignment 1: Three-day food record	Friday- Oct 6 online at 9 AM	10
Term Test 1 (MCQ)	Monday- Oct 16 : 11-1 On all lecture, background documents, textbook reading material covered by Dr. G: Sept 11 to Oct 2 inclusive	20
Science Writing Quiz (MCQ)	Friday- Oct 27 - online at 9 AM	1
Assignment 2: Essay	Friday- Nov 3 -online at 9 AM	14
Term Test 2 (MCQ)	Monday- Nov 13 : 11-1 during the scheduled class - on all of Dr. Wolever's material on macronutrients	18
Final Exam (MCQ)	December Exam Period-10% term test 1 material; 10% term test 2 material; 80% remaining course material (lecture, background documents, textbook readings)	37
Total		100

11) Important course policies

a) Electronic communication with instructors:

Questions about course content and assignments: The course has a discussion board for posting questions about the lectures, background documents, textbook readings, and assignments.

Questions of a more personal nature: Please limit the use of **e-mail** to personal matters only. If you send questions about lecture content via email, you will be asked to post the questions on the discussion board. Be sure to include the course code **NFS284** in the subject line of any e-mail communication. Note also that there are instructor office hours where you can also discuss course content and/or personal matters.

Student e-mail accounts: **All U of T students are required to have a valid UofT email address.** You are responsible for ensuring that your UofT e-mail address is set up and properly entered in ACORN. Otherwise you will NOT be able to receive emails from your instructor as @mail.utoronto.ca addresses are the only addresses used by Blackboard. You are also responsible for checking your U of T email account on a regular basis. Failure to do so is not an acceptable excuse for missing important messages.

Class-wide mailings: Occasionally instructors will send a mass mailing to all students via Blackboard. Forwarding your @mail.utoronto.ca to a hotmail, Gmail, yahoo account etc is NOT advisable. In some cases, these mailings may be interpreted as spam and be rejected or diverted to your junk mail folder. This could result in you missing an important message. Check your @mail.utoronto.ca account directly from the U of T website.

Announcements: Announcements are posted on the course website and it is the student's responsibility to check there regularly. These announcements include reminders of important dates that most students find helpful.

b) Assignments and Turnitin policy: Students are expected to independently work on their assignments and properly paraphrase and cite sources used for their assignments. The Science Writing Quiz is intended to provide all students with an understanding of how to use scientific sources in their writing and how to avoid plagiarism. Be sure that you understand what plagiarism is. It is a serious offence. In this course, Turnitin will be used as a plagiarism prevention tool as described below:

"Normally, students will be required to submit their course essays to Turnitin.com for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site."

For this course, students will be asked to submit two assignments: 1) three day food record and 2) essay to Turnitin. Instructions on how to access Turnitin will be posted on Blackboard.

If you have problems that prevent you from submitting to Turnitin, please contact Dr. G. All students are expected to submit to Turnitin, which is voluntary, or provide an alternative. Failure to do so could result in a grade of **ZERO** for the assignment. For those who do not submit to Turnitin, as an alternative you will be expected to meet with Dr Gurfinkel for a short **oral test** during which you will be asked questions about the process of writing of the assignment and your knowledge of the content of the assignment. Your assignment mark may be modified based on how well you answer these questions.

Dr. Gurfinkel reviews the Turnitin submissions and will e-mail students if there are any concerns about their writing. Often this is no more than a discussion of how to properly paraphrase and/or cite references, but the deduction of marks may also result. Failure to respond to such an e-mail **will** result in the deduction of assignment marks.

If a serious case of plagiarism is suspected, the student's assignment will be forwarded to the Office of Academic Integrity for review and possible sanction.

c) Policy regarding late assignments:

All assignments must be submitted online by the stated date and time.

The ESSAY ASSIGNMENT and 3-DAY FOOD RECORD will be accepted after the due date and time if compelling reasons for an extension are presented, such as illness, personal distress or similar unforeseeable circumstance. Please contact Dr. Gurfinkel by e-mail (debbie.gurfinkel@utoronto.ca) to request an extension. You will be asked to provide a reason for the request. This can be a written explanation from you or a verification of illness or injury form: <http://www.illnessverification.utoronto.ca/index.php> . If you prefer, verbal explanations will also be accepted. See Dr. Gurfinkel during her office hours Fridays 1-5 pm (FG142-150 College St) or phone 416-978-3621. All discussions are kept confidential. Students dealing with intense or ongoing personal distress or chronic illness, who may need special and continuing accommodation, may be asked for additional documentation and are advised to discuss their situation with their college registrar.

Please note that poor time management, having several assignments due at the same time, having to study for term tests, etc are generally NOT compelling reasons for an extension. Students are expected to complete their assignments as best they can, hand them in on time, even if incomplete, and accept that they may not get as high a grade as they would like.

If you are uncertain if you have compelling reasons for an extension or if you are unable to contact Dr. Gurfinkel for an extension prior to the due date, then you should:

- 1) FIRST** hand in as much of the assignment as you possibly can on the due date and **THEN**
- 2) Make an appointment to meet with Dr. Gurfinkel (debbie.gurfinkel@utoronto.ca) to discuss your situation.

IMPORTANT: Often students don't believe their situation is compelling, when in fact it is, so please speak to Dr. Gurfinkel, whatever your circumstances.

d) Policy regarding assignment re-reads:

Students who have concerns about their marks can request re-reads. Instructions will be posted on Blackboard; deadlines apply.

e) Policy regarding missed term test:

Except for compelling reasons, such as illness, personal distress or similar unforeseeable circumstances, all students will be given a grade of **ZERO** if they miss the term test. There are **NO MAKE-UPS**. If you miss one term test (worth 20%), for compelling reasons, your final exam will be worth 57% of your final grade (20% + 37%). If you miss both term tests your final exam will be worth 75% of your final grade (20% + 18% + 37%).

You are required to provide an explanation for your absence. This can be a written explanation from you or a medical certificate <http://www.illnessverification.utoronto.ca/index.php> . If you prefer, verbal explanations will also be accepted. See Dr. Gurfinkel during her office hours Fri 1-5 pm (FG142-150 College St) or phone 416-978-3621. All discussions are kept confidential. Students dealing with intense or ongoing personal distress or chronic illness, who may need special and continuing accommodation, may be asked for additional documentation and are advised to discuss their situation with their college registrar.

f) Policy regarding missed final exam:

Policy regarding missed final exam is determined by the Faculty of Arts and Science. If you have compelling reasons for missing your final exam, contact your college registrar to file a petition; do this quickly as there are deadlines. You must provide documentation to support your petition. If your petition is accepted you will be permitted to write a deferred exam. A deferred exam fee (approx \$70) must be paid. **Note:** Students do loose access to courses on Blackboard at some point after the end of term, so be sure you have downloaded all documents you need to study from the course website as soon as possible.

g) Lecture material, audio recordings, and intellectual property:

Please note that the lecture presentations, videos, and other course documents are the intellectual property of the instructor. The distribution, transmission, reproduction or re-posting of the NFS284 course materials, including audio and video recordings, in whole or part, is NOT permitted without the consent of the instructor.

All students enrolled in NFS284 are permitted to use the material for personal use and study. You may also make audio recordings of the lecture for personal use only.

12) Academic Integrity:

Students are expected to conduct themselves with academic integrity. The Code of Behavior clearly describes activities that are considered academic misconduct:

<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>

Students are urged to review the code periodically as ignorance of the rules is not an acceptable excuse.

13) How to be successful in NFS284:

- 1) Powerpoint slides are posted prior to the lectures. Download and read/skim through the slides. As little as 10 minutes spent on this "preview" will enhance your ability to follow and understand the lecture.
- 2) Read all background documents associated with a lecture, prior to class, and do the self-assessment questions.
- 3) COME TO CLASS!!
- 4) A substantial amount of the material discussed in lectures and background documents is derived from the textbook so use it as a supporting reference to assist in your comprehension of the material.
- 5) Please note that the term tests and final exam are based on the lecture content, background documents, and required textbook readings. You are NOT responsible for material in the textbook that is not covered in these materials.
- 6) Check out the documents posted in the study skills section on the course website and see the links below (Help with Academic Skills) for University resources.
- 7) Keep up-to-date with your reading. It is easy to fall behind.
- 8) Start working on assignments early- they take longer to complete than most students estimate.
- 9) In order to be successful on tests or exams, you must be able to both comprehend the material and recall it. Review your notes for comprehension regularly and use the discussion board to post questions about anything you don't understand or visit instructors during office hours to ask questions. If you have been reviewing the material during the term for comprehension, you can focus on recall in the days immediately before the exam. Become aware of how long it takes you to learn things so you can plan realistically. The last day before a test or exam should ideally be for review only. Finally, during an exam, persevere; don't give in to the stress.

14) After NFS284:

NFS284 is a required prerequisite for all higher level NFS courses (except NFS386: *Food Chemistry* for which you only require first year chemistry). We hope that you will enjoy NFS284, read about these other courses in the calendar, and consider majoring in Nutritional Sciences or taking additional NFS courses in the future. If you have any questions about the Nutritional Sciences program don't hesitate to contact Dr G.

15) Accessibility Needs:

The University of Toronto is committed to accessibility. If you require accommodations for a disability, or have any accessibility concerns about the course, the classroom or course materials, please contact Accessibility Services as soon as possible: <http://www.accessibility.utoronto.ca/>

16) Help with Academic Skills:

Academic Success Centre: The Academic Success Centre provides workshops, peer mentoring, and other resources to help all students improve their academic skills. Check out the available services at: <http://www.asc.utoronto.ca/>

English Language Learning: Provides support to students for whom English is a second language. It also supports native speakers who would like to improve their language skills. Check out available services at: <http://www.artsci.utoronto.ca/current/advising/ell>

Writing Centres: Writing Centres provide assistance with writing assignments for all students. Check out available services at: <http://www.writing.utoronto.ca/writing-centres>