



**DEPARTMENT OF PHYSICAL EDUCATION AND KINESIOLOGY**

**COURSE OUTLINE – FALL 2018**

**PE2420 (B2): Introduction to Nutrition for Exercise and Performance – 3 (3-0-0) 45 Hours**

**INSTRUCTOR:** Julia Dutove, Ph.D.      **PHONE:** 780-539-2974  
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**OFFICE HOURS:** By appointment

**CALENDAR DESCRIPTION:** The course examines the fundamental principles of nutrition and the effects it has in society, athletic performance and physical education. It includes an analysis of practical and theoretical concepts of nutrition and the effects that dietary intake has on exercise, body composition and athletic performance.

**PREREQUISITE(S)/COREQUISITE:** None

**REQUIRED TEXT/RESOURCE MATERIALS:**

Dunford, M., & Doyle, J. A. (2019). *Nutrition for sport and exercise* (4th ed.). Belmont, CA: Cengage.

**DELIVERY MODE(S):** This course work will be delivered in a blended format using a variety of teaching methods including lecture, scenarios, in-class worksheets, exams, and nutritional analysis.

**COURSE OBJECTIVES:**

1. To provide students with a learning environment conducive to discussion, analysis, and synthesis of new nutrition and exercise information.
2. To increase knowledge specific to relevant nutritional claims.
3. To explain physiological interactions between various macro and micronutrients and express interactions in the form of exercise demands
4. To differentiate between scientifically supported claims and other claims in the nutritional field.
5. To introduce and explore exercise training principles, basic sport nutrition guidelines, methods of energy expression, energy systems, and the relationship with nutrition practices.

**LEARNING OUTCOMES:**

1. Students will develop a basic knowledge of the functions of the major nutrients.
2. Students will work to clarify basic interactions between dietary intake, exercise, and body composition.
3. Students will be able to critically evaluate claims about nutrition and food products.
4. Students will explore the role of nutrition in exercise and athletic performance.
5. Students will be able to effectively develop a working knowledge of key concepts such as Dietary Reference Intakes and calculating such concepts as the Total Daily Energy Expenditure.
6. Students will demonstrate competency in tracking and analyzing nutritional practices for the purposes of critical reflection.
7. Students will work to critically analyze own and others nutritional practices and increase competence to make recommendations.

**TRANSFERABILITY:**

UA, UC, UL, AU, GMU, CU, CUC, KUC.

Please consult the Alberta Transfer Guide for more information

(<http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>)

**\*\* Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability**

**EVALUATIONS:**

Tests (2 x 10% each)	20%	October 4 & 30
Dietary Analysis Part 1	5%	October 18
Dietary Analysis Part 2	20%	November 27
In-class and Online Assignments	15%	Due throughout semester
Online Presentation	10%	November 30
Final Exam	30%	During Finals: December 10-19

**GRADING CRITERIA:**

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**. This means **DO NOT GET LESS THAN “C-” IF YOU ARE PLANNING TO TRANSFER TO A UNIVERSITY.**

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

**STUDENT RESPONSIBILITIES:**

- Regular attendance is a key to success in this and every other course. It is the student’s responsibility to acquire any materials and content missed due to absence. Missed in-class assignments cannot be made up unless it is an excused absence with documentation.
- See Additional Information section for late policies.

**STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

**\*\*Note:** all Academic and Administrative policies are available on the same page.

**COURSE SCHEDULE/TENTATIVE TIMELINE:**

Tuesdays and Thursdays: 4:00-5:20pm (J201)

<b>Date</b>	<b>Topic</b>	<b>Readings*</b>
Week 1 Sept 7	Course Introduction	
Week 2 Sept 11 & 13	Introduction to Nutrition Measuring Energy	Chapter 1.1, 1.2, 1.5, 2
Week 3 Sept 18 & 20	Digestion Food Guides	Chapter 3, 11.1, 11.2 Smolin Chapter 2
Week 4 Sept 25 & 27	Save-On Foods Tour Assignment #1 due Sept 27	
Week 5 Oct 2 & 4	Review <b>October 4: Test #1</b>	APA Handout
Week 6 Oct 9 & 11	Carbohydrates	Chapter 4
Week 7 Oct 16 & 18	Protein Assignment #2 due Oct 16 <b>October 18: Dietary Analysis Part 1 due</b>	Chapter 5
Week 8 Oct 23 & 25	Fat Assignment #3 due Oct 23	Chapter 6
Week 9 Oct 30 & Nov 1	Assignment #4 due Oct 30 <b>October 30: Test #2</b> Vitamins	Chapter 8
Week 10 Nov 6 & 8	Minerals <b>November 8: PEAK Student for a Day (No classes)</b>	Chapter 9
Week 11 Nov 13 & 15	<b>November 13: Fall Break (No classes)</b> Hydration Assignment #5 due Nov 15	Chapter 7
Week 12 Nov 20 & 22	Supplements Sport recommendations	Chapter 10.4, 10.5, 11.3-11.5 Smolin Chapter F5 Jeukendrup Chapter 11
Week 13 Nov 27 & 29	Eating disorders Making lifestyle changes <b>November 27: Dietary Analysis Part 2</b> <b>November 30: Presentation due</b>	Chapter 12, 13.2, 13.3 Additional reading TBC
Week 14 Dec 4 & 6	Presentations Final exam review	

**\*Note:** All readings are from the course textbook unless otherwise indicated. Other readings will be posted on Moodle.

**ADDITIONAL INFORMATION:****Tests:**

There will be 2 tests during the semester, each worth 10% of your overall course grade.

**Dietary Analysis:**

The purpose of this project is to learn how to analyze dietary intake and provide recommendations. This project will have two parts. Projects are due at the start of class on the due date. Late projects will be deducted 10% per day (including handing in after the start of class on the due date) unless prior arrangements have been made. After 4 days late, projects will not be accepted. If you have a significant issue or concern (e.g., illness or family emergency), contact the instructor as soon as possible.

**In-class and Online Assignments:**

Throughout the semester there will be online and in-class assignments to supplement lectures. If you are absent when the assignment is handed out you may not be able to complete the assignment unless you have an excused absence with documentation. Assignments will not be accepted after the due date, unless other arrangements have been made, and may be subject to a late penalty. If you have extenuating circumstances contact the instructor as soon as possible. Note that the Save-On tour is mandatory and missing the tour will result in your assignment grade being deducted 5% out of 15% of your total course grade.

**Online Presentation:**

You will create a presentation to be posted online. Topics will be given in class and students will be able to view all presentations on Moodle.

**Final Exam:**

The final exam will cover material from throughout the semester and will be written during the final exam period.