

Jordan University of Science and Technology
Faculty of Agriculture
Department of Nutrition and Food Technology
Spring 2007

Course Information	
Course Title	Vitamins and Minerals In Nutrition
Course Number	NF 765
Prerequisites	***
Course Website	***
Instructor	Dr. Sana Janakat
Office Location	C4 L3
Office Phone	22278
Office Hours	Sun 9-10, Tue & Thu 2-3
E-mail	jana@just.edu.jo
Teaching Assistant	***

Text Book	
Title	Nutritional Biochemistry
Author(s)	Brody, T.
Publisher	Academic Press, New York
Year	1994
Edition	
Book Website	http://www.amazon.com/gp/reader/0121348369/ref=sib_dp_pt/104-0986010-9518364#reader-link
References	<ul style="list-style-type: none"> • Spiller, G.A. (2001) CRC Handbook of Dietary Fiber in Human Nutrition. 3rd ed. CRC Press, London. • Stipanuk, M. H. (2000) Biochemical and Biophysical Aspects of Human Nutrition, W.B. Saunders Company, Philadelphia

Assessment Policy		
Assessment Type	Expected Due Date	Weight %
Mid term Exam	8/4/2007	30
Final Exam		
Written		40
Term paper		10
Assignments		20

Course Objectives	Weights
1. Enable the student to compile information from different sources then organize a presentation and present it publicly.	20%
2. Assist the students to deduce and interpret information from histograms and tables	
3. Assist the students to design tables using a text or previously compiled information	
4. Help the students to realize the deep link between Biochemistry and Nutrition	

Teaching & Learning Methods

Power Point presentations
Exams

Learning Outcomes: Upon successful completion of this course, students will be able to

Related Objective(s)		Reference(s)
1	Study digestion and absorption of nutrients at depth	Chapter 2 and Handouts
1	Study nutrients that escape digestion	
1	Study different types of dietary lipids and their effect on membrane composition	
1,2	Study the structure and function of lipoproteins	
1-6	Study the relation between lipoproteins and cardiovascular diseases	
3,4	Study the role of cholesterol in the body	
5,6	Study structure and function water soluble vitamins	
6	Study structure and function of fat soluble vitamins	
5	Study the function of inorganic nutrients	

Course Content

Week	Topics	Chapter in Text (handouts)
1	Overview of Digestion and Absorption	
2	Digestion and absorption of carbohydrates	
3	Digestion and absorption of proteins	
4	Digestion and absorption of lipids	
5-6	Dietary fibers	
7-8	Carbohydrates metabolism-Synthesis and oxidation	
9	Protein synthesis and degradation	
10-12	Amino acid metabolism	
13-14	Lipid Metabolism-synthesis and oxidation	
15	Lipoproteins synthesis, transport and metabolism	
16	Disturbances of energy balance	

Additional Notes

Assignments	Chapter preparation
Exams	Mid term, final exam
Graded Exams	30, 40
Participation	Chapter and term paper presentation
Laboratory	***
Projects	Term papers