

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 773
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 of the Vitamins
Author(s)	Bender, DA
Publisher	Cambridge University
Year	2003
Edition	5 th
Book Website	http://www.cambridge.org/catalogue/email.asp?isbn=0511057326
References	<ul style="list-style-type: none"> • Bowman, BA and Russell, RM. (2001) <i>Present knowledge in Nutrition</i>, ILSI press, Washington DC. • Brody , T (1994) <i>Nutritional biochemistry</i>, Academic Press, New York. • Stipanuk, MH (2005) <i>Biochemical and biophysical aspects of human nutrition</i>, WB. Saunders Company, Philadelphia

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

Course Objectives	Weights
1. Enable student to compile information form different sources then organize a presentation and present it publicly.	35%
2. Assist the students to deduce and interpret information from histogram and tables	45%
3. Assist the students to design tables using a text or previously compiled information	20%

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)
1,2,3	Learn the actual mechanisms of the action of water soluble vitamins as coenzymes	
1,2,3	Learn the action of fat soluble vitamins on the molecular level	
1,2,3	Learn the action of minerals on the molecular level	

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Vitamin A	
2	Vitamin A,D	
3	Vitamin E,K	
4	Vitamin C, Thiamine	
5	Riboflavin, Niacin	
6	Vitamin B-6, Folate	
7	Vitamin B-12, Biotin	
8	Pantothonic acid, Choline and Creatine	
9	Calcium	
10	Phosphorus	
11	Sodium. Chloride, and Potassium	
12	Iron	
13	Zinc, Iodine	
14	Presentations	

Additional Notes	
Assignments	Term paper & chapter presentation
Exams	Mid term, final exam
Graded Exams	30, 40
Participation	Chapter and term paper presentation
Laboratory	----
Projects	Term papers