



## First Semester 2023 /2024

COURSE INFORMATION	
<b>Course Name:</b> Medical Nutrition Therapy II <b>Semester:</b> First <b>Department:</b> Department of Clinical Nutrition <b>Faculty:</b> Applied Medical Sciences	<b>Course Code:</b> 140502447 <b>Section:</b> 1 <b>Core Curriculum:</b> Major requirements
<b>Day(s) and Time(s):</b> Sun, Tue, Thur:(9:00-10:00) – (11:00-12:00) <b>Classroom:</b> A.M. 204-107	<b>Credit Hours:</b> 3 <b>Prerequisites:</b> MNT I practical 140502345
COURSE DESCRIPTION	
A comparative view of nutrition as it relates to the treatment of disease. Emphasis will be placed on, methods of nutrition support, food and drug interactions, and applications of nutrition interventions for: diseases of the hematological system, diseases of the musculoskeletal system, diseases and disorders of the neurological system, neoplastic disease, diseases of the respiratory system, adverse reactions to food, and metabolic stress.	
DELIVERY METHODS	
The course will be delivered through a combination of active learning strategies. These will include: <ul style="list-style-type: none"> <li>• PowerPoint lectures and active classroom-based discussion</li> <li>• Collaborative learning through small groups acting in an interdisciplinary context.</li> <li>• Relevant films and documentaries</li> <li>• Video lectures</li> <li>• E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team</li> </ul>	
FACULTY INFORMATION	
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<b>Telephone Number:</b>	
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<b>Office Hours:</b>	<b>Sunday, Tuesday 10:00- 11:00</b> <i>Please send an e-mail (bkhatib@hu.edu.jo) to meet at any other time.</i>
REFERENCES AND LEARNING RESOURCES	

### **Required Textbook**

1. Nelms, MN, Sucher, KP, Lacey, K, Roth, SL. 2016. **Nutrition Therapy and Pathophysiology**, 3rd Edition. Wadsworth.
2. Nelms, M., Sucher, K , Lacey, K and Roth, S. (2020). **Nutrition Therapy and Pathophysiology** , 4<sup>th</sup> Edition. Australia: Wadsworth, Cengage learning.
3. Mahan, K.L and Escott-Stump, S. 2017. **Krause's Food and the Nutrition Care Process**, 14<sup>th</sup> edition, W.B. Saunders Company.

### **Suggested more references:**

1. Shils, M. E. et al. (2006). Modern Nutrition in Health and Disease, 10th edition. Lea and Febiger, Philadelphia.
2. Schlenker.E. & Roth.S.(2011).Williams' Essentials of Nutrition and Diet Therapy, 10th edition, The C.V. Mosby Co., St. Louis.
3. American Dietetic Association (ADA) and American Diabetic Association (2008). Choose Your Foods: Exchange Lists for Diabetes, ADA Chicago.
4. DeBruyne, L. K., Whitney. E. N. and Pinna.K. (2012). Nutrition and Diet Therapy, 8th ed. Thomson ,Belmont, USA.

### **Useful Web Resources:**

[www.nutrition.org](http://www.nutrition.org)    [www.faseb.org/ascn](http://www.faseb.org/ascn)  
[www.bda.uk.com](http://www.bda.uk.com)    [www.dietetics.com](http://www.dietetics.com)  
[www.who.int](http://www.who.int)    [www.diabetes.org](http://www.diabetes.org)  
[www.americanheart.org](http://www.americanheart.org)    [www.fao.org/food](http://www.fao.org/food)    [www.fda.gov](http://www.fda.gov)    [www.usda.gov](http://www.usda.gov)  
[www.dietitians.ca](http://www.dietitians.ca)    [www.webmed.com](http://www.webmed.com)

## **ACADEMIC SUPPORT**

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

### **Special Needs Section:**

**Tel:**

**Location:**

**Email:**

## STUDENT LEARNING OUTCOMES MATRIX\*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
To provide students with the optimum educational standard in the field of clinical nutrition and general knowledge in food technology	<b>KP1:</b> Demonstrate a depth understanding of the basis of nutritional science and the nutrient composition of food and discover the links between diet and disease and health	To: 1. Recognize aetiologies, diagnosis tools, signs and symptoms, and pathophysiologic correlations of some diseases that require rehabilitation, including selected surgeries and severe illnesses resulting from burns and accidents.	Learn the etiologies, diagnosis tools, signs and symptoms, and pathophysiologic correlations of certain common diseases included in this course's syllabus.	<b>Quiz</b>
To provide optimal educational and training opportunities for students during their professional preparation for careers in nutrition.	<b>KP2:</b> Demonstrate an understanding of food chemistry, technology, preparation, and safety and correlate nutrition with food technology and future challenges.	2. Plan diets for obstructive pulmonary disease.	Ability of the students to read and understand the patient file and plan the right diet for the patient.	<b>Assignment</b>
To participate in community services for health promotion and disease prevention programs	<b>KP3:</b> Explain the principles of cellular metabolic processes, the structure and function of the various physiological systems, and the principles of biochemistry	3. Understand the role of nutrition and the appropriate diets for hypercatabolic diseases, particularly cancer and AIDS.	Preparation of tube feeding formula for different disease situations. Recognition of justification for using tube feeding and parenteral nutrition formulas.	<b>Quiz</b>
To encourage creativity and innovation in solving problems of emerging cases in the field of clinical nutrition	<b>KP4:</b> Providing students with high levels of educational quality based on training on specific pathological conditions in therapeutic nutrition.	4. Be able to prepare tube feeding formulas and understand the situations in which they are used.	Giving consultation on the right dietary management for neurological and rheumatic disorders.	<b>Midterm Exam</b>
	<b>SP1:</b> Evaluate critically scientific research from a variety of sources in relation to nutrition and health through working with others, communication, self-management, and problem-solving and reflect on the various components			
To sustain the concept of collaboration to promote an appropriate diet solution in cases of health and disease	<b>SP2:</b> Communicate effectively with groups and individuals to promote the benefits of a balanced diet throughout the lifespan and demonstrate the ability to use scientific laboratory skills.	5. Know the composition and be able to evaluate different parental feeding formulas, their justification for use, and the possible complications that might accompany TPN. 6. Plan and assess diets for the above-mentioned diseases	Relate the clinical signs and symptoms of the disease to the etiology and understand the importance of diet in dealing with such symptoms. Assess the patient nutritional status using different nutritional assessment tools.	<b>Assignment</b>
	<b>SP3:</b> Assess diet, food and nutrient intake, and the consumption of food constituents in individuals and groups		Find the relationship between laboratory and anthropometric measurements and the disease symptoms.	<b>Quiz</b>
	<b>CP1:</b> Demonstrate consistent professional behavior in accordance with the legal and ethical boundaries of the dietetic profession		Give the right diet for each disease condition.	
	<b>CP2:</b> Critically apply knowledge of diet and health to evaluate and communicate and comment on dietary or health information both from scientific sources.		Apply the exchange list system in diet planning and dietary assessment.	
	<b>CP3:</b> Utilize the methods of data analysis using computer software and apply these methods to analyze data obtained from a wide variety of sources and situations, and apply critical thinking, testing hypotheses, formulating suggestions in diet and health			

## COURSE REGULATIONS

### ***Participation***

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance.* It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

### ***Plagiarism***

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

**The instructor has the right to fail the coursework or deduct marks where plagiarism is detected**

### ***Late or Missed Assignments***

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.

- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

### ***Student Complaints Policy***

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

## **COURSE ASSESSMENT**

### ***Course Calendar and Assessment***

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Grade Weighting	Deadline Assessment
First-Hour exam	30%	12/11/2023
Second-Hour exam	30%	24/12/2023
Final Exam	40%	16 <sup>th</sup> Week

### **Description of Exams**

Test questions will predominately come from the material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. The exam will consist of a combination of multiple choice, short answer, match, true and false, and/or descriptive questions.

**Homework:** Will be given for each chapter, while the chapter in progress you are supposed to work on them continuously and submit in next lecture when I finish the chapter.

You are also expected to work on in-chapter examples, self-tests and representative number of end of chapter problems. The answers of self-tests and end of chapter exercises are given at the end of the book.

**Quizzes:** Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce that you come prepared to the class.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria\*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

### WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

	<u>Week</u>	<u>no. of lecture hours</u>
<b>Methods of Nutrition Support</b>	<b>1</b>	<b>3</b>
<b>Food-Drug Interaction</b>	<b>2-3</b>	<b>6</b>
<b>Metabolic Stress</b>	<b>4-5</b>	<b>6</b>
<b>Cancer</b>	<b>6-7</b>	<b>6</b>
<b>Adverse Reactions to Food or Metabolic Disorders or Anemia</b>	<b>8</b>	<b>3</b>
<b>Pulmonary Disease</b>	<b>9-10</b>	<b>6</b>
<b>Neurological Disorders</b>	<b>11-12</b>	<b>6</b>
<b>Rheumatic Disease</b>	<b>13</b>	<b>3</b>
<b>Bone Health</b>	<b>14</b>	<b>3</b>