



Syllabus of Medical Nutrition Therapy (1) / Practical

Second Semester 2023 /2024

COURSE INFORMATION	
Course Name: Medical Nutrition Therapy (1) / Practical Semester: Second Semester Department: Department of Clinical Nutrition and Dietetics Faculty: Applied Medical Sciences	Course Code: 140502345 Section: 1 Core Curriculum: Obligatory department
Day(s) and Time(s): Monday: 8:30-11:30, and 11:30-14:30 Classroom: To be determined	Credit Hours: 1 Prerequisites: Medical Nutrition Therapy 1 (140502344)
COURSE DESCRIPTION	
<p>Topics that will be studied in this course are specified in how diet can intervene to treat some diseases, particularly obesity, diabetes mellitus, gastrointestinal, liver, pancreatic, and renal diseases. In addition, meal planning for these conditions will be discussed in detail.</p>	
DELIVERY METHODS	
<p>The course will be delivered through a combination of active learning strategies. These will include:</p> <ul style="list-style-type: none"> • Case studies • PowerPoint lectures and active classroom-based discussion • Collaborative learning through small groups acting in an interdisciplinary context. • Encouraging the use of social media and communication between students to enhance the learning experience. 	

FACULTY INFORMATION	
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REFERENCES AND LEARNING RESOURCES
Required Textbook: <ul style="list-style-type: none">Nelms, M.N and Anderson, S.L., Medical Nutrition Therapy; case studies. 5th Ed., Canada: Thomson/Wadsworth.Iowa dietetic association. Simplified Diet Manual, 11th Ed., edited by Maher, A.K., Wiley-Blackwell.
Suggested Additional Resource: <ul style="list-style-type: none">Nelms, M., Sucher, K, Lacey, K and Roth, S. (2020) Nutrition Therapy and Pathophysiology 4th Edition. Australia: Wadsworth, Cengage learning.Choose Your Foods: Exchange Lists for Diabetes, American Diabetes Association and Academy of Nutrition and Dietetics, Copyright 2020Pronsky ZM, Powers and Moore’s, Food Medication Interaction, Latest edition. http://www.foodmedinteractions.com/

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	KP1: 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	1. Acquire knowledge and skills for applying evidence-based medical nutrition for disease prevention and treatment.	K1- Describes the traditional mode(s) of treatment (medical treatment) for each disease or disorder and the relationship of treatment modalities to nutritional status/support.	Exams “On-line” reading
To provide optimal educational and training opportunities for students during their professional preparation for careers in nutrition.	KP2: demonstrate an understanding of food chemistry, technology, preparation, safety and correlates nutrition with food technology and future challenges.	2. Understand the pathophysiology related to discussed medical conditions and determine appropriate evidence based medical nutrition therapy	K2- Use the nutrition care process (NCP) to make decisions, to identify nutrition-related problems and determine and evaluate nutrition interventions, including medical nutrition therapy, disease prevention and health promotion.	
To participate in community services for health promotion and disease prevention programs	KP3: Explain the principles of cellular metabolic processes, the structure and function of the various physiological systems, and the principles of biochemistry	3. Complete a nutrition assessment and interpret nutrition assessment data to develop a nutrition prescription with goals and objectives including dietary and nutrient modifications to promote positive outcomes.	K3- State the Academy Nutrition Care Process in diagnosing and evaluating outcomes. K4- Outlines composition and therapeutic adaptation of routine hospital diets.	
To encourage creativity and innovation in solving problems of emerging cases in the field of clinical nutrition	KP4: Providing students with high levels of educational quality based on training on specific pathological conditions in therapeutic nutrition.			
To sustain the concept of collaboration to promote an appropriate diet solution in cases of health and disease	SP1: 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		S1- Summarizes the basic physiological function of the respective organ system. S2- Perform nutrition diagnosis and intervention practically using NCP by practicing case studies	Case studies Practice Written practical exam
	SP2: 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.		S3- Explain current research trends associated with each disease or disorder which may ultimately affect nutritional status/support	
	SP3: Assess diet, food and nutrient intake, and the consumption of food constituents in individuals and groups		S4- Summarizes the clinical/nutritional implications of: anthropometric, biochemical data, medical tests & procedures, client history, nutrition focused physical exam and food history	Practice Group discussion
	CP1: Demonstrate consistent professional behavior in accordance with the legal and ethical boundaries of the dietetic profession		C1- Show proper professional behaviour and work ethics	
	CP2: Critically apply knowledge of diet and health to evaluate and communicate and comment on dietary or health information both from scientific sources.		C2- Demonstrate effective leadership skills and team work in the class room as well as in the lab	
	CP3: 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			

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:

COURSE REGULATIONS

Policy:

- Students are encouraged to prepare for class, using the scheduled outline: your understanding in class will be greatly enhanced if you are familiar with the information ahead of time.
- Students missing any class time are responsible for obtaining all information, including assignments and schedule changes.
- All the Lab. Sessions will require students to **WORK IN GROUP** or pairs. This does not mean one student doing one part and another student doing a completely independent part. Each student should help his/her partner on one particular aspect, so as to be familiar with all aspects of the experiment.
- Students misses more than 15% of total lectures will be deprived from the final exam.
- All students should have the same opportunity to learn. There will be times throughout this course you will be encouraged to share personal experiences and opinions and likewise to listen to other students' comments. Friendly, courteous, respectful behavior and positive attitude will be expected from all students each day. There will be NO tolerance for any disrespect towards other students, the subject, or the instructor, otherwise, the misbehaved student will be asked to leave the classroom.
- Participation and discussion are encouraged for earning additional points (extra credits).

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

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 listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Instrument	Grade Weighting	Deadline Assessment
Mid-term Assessment	Mid-Term Examination	30 %	17/4/2024 Time & place: To be determined
Continuous Assessment	Case study presentation	15 %	According to the schedule
	Assignment	10 %	29/4/2024
	Quizzes	5 %	Continuous Un-announced
End-of-block Assessment	Written end-of-block Examination	40 %	29/5/2024 Time & place: To be determined

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.

No make-up exams 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 LABORATORIES SCHEDULE AND CONTENT DISTRIBUTION

"Labs. hours and weeks are approximate and may change as needed"

Note: For Medical nutritional therapy 1 lab.; 1 lab. per week (Sun. and Tues.), each lab duration covers 3 hours. The chapters of the textbook that are considered part of the course content will be included in exams.

Week #	Date	Case #	Topic
1	26/2		Orientation
2	4/3		Nutrition Care Process
3	11/3	Case # 1	Weight Management with Metabolic Syndrome
4	18/3	Case # 2	Type 2 Diabetes in an Elderly Man
5	25/3	Case # 3	Type 2 Diabetes with Cardiovascular Disease
6	1/4	Case # 4	Hypertension and Cardiovascular Disease
7	8/4	Case # 5	Heart Failure
8	15/4	Case # 6	Hepatobiliary
8	17/4		Mid-Exam
9	22/4	Case # 7	Chronic Kidney Disease (CKD) Treated with Dialysis
10	29/4		Assignment (Due date)
10	29/4	Case # 8	Gastrointestinal reflux disease
11	6/5	Case # 9	Crohn's disease
12	13/5	Case # 10	Short Bowel Syndrome
13	29/5		Final-Exam

Assessment Rubrics

Classroom Participation: Assessment Criteria

Criteria	Quality				Score
	Excellent (4 points)	Good (3 points)	Satisfactory (2 points)	Needs Improvement (1 points)	
Degree to which student integrates course readings into classroom participation	often cites from readings; uses readings to support points; often articulates "fit" of readings with topic at hand.	-occasionally cites from readings; - sometimes uses readings to support points; -occasionally articulates "fit" of readings with topic at hand .	-rarely able to cite from readings; - rarely uses readings to support points; - rarely articulates "fit" of readings with topic at hand	-unable to cite from readings; -cannot use readings to support points; cannot articulates "fit" of readings with topic at hand .	
Interaction/participation in classroom discussions	- always a willing participant, responds frequently to questions; - routinely volunteers point of view .	-often a willing participant, - responds occasionally to questions; - occasionally volunteers point of view .	-rarely a willing participant, - rarely able to respond to questions; - rarely volunteers point of view .	- never a willing participant., - never able to respond to questions; - never volunteers point of view .	
Interaction/participation in classroom learning activities	- always a willing participant; - acts appropriately during all role plays; - responds frequently to questions; - routinely volunteers point of view.	-often a willing participant; - acts appropriately during role plays; - responds occasionally to questions; -occasionally volunteers point of view.	-rarely a willing participant. -occasionally acts inappropriately during role plays; - rarely able to respond to direct questions; - rarely volunteers point of view .	- never a willing participant - often acts inappropriately during role plays;, - never able to respond to direct questions; - never volunteers point of view.	
Demonstration of professional attitude and demeanor	- always demonstrates commitment through thorough preparation; - always arrives on time; often solicits instructors'	rarely unprepared; rarely arrives late; - occasionally solicits instructors' perspective outside class .	- often unprepared; occasionally arrives late; - rarely solicits instructors' perspective outside class .	- rarely prepared; - often arrives late; - never solicits instructors' perspective outside class	

Classroom Participation: Oral Presentation										
Element	Excellent		Satisfactory			Needs Improvement				score
	8	7	6	5	4	3	2	1	0	
Organization	There is a logical sequence of information. Title slide and closing slide are included appropriately.		There is some logical sequence of information. Title slide and closing slides are included.			There is little or no logical sequence of information. Title slide and/ or closing slides are not included.				
Slide Design (text, colors, background, illustrations, size, titles, subtitles)	Presentation is attractive and appealing to viewers.		Presentation is somewhat appealing to viewers.			Little to no attempt has been made to make presentation appealing to viewers.				
Content	Presentation covers topic completely and in depth. Information is clear, appropriate, and accurate.		Presentation includes some essential information. Some information is somewhat confusing, incorrect, or flawed.			Presentation includes little essential information. Information is confusing, inaccurate, or flawed.				
Language	Spelling, grammar, usage, and punctuation are accurate. Fluent and effective		There are minor problems in spelling, grammar, usage, and/or punctuation.			There are persistent errors in spelling, grammar, usage, and/or punctuation. Less or not fluent and effective.				
Delivery	Ideas were communicated with enthusiasm, proper voice projection and clear delivery. There was sufficient eye contact with audience. There were sufficient use of other non-verbal communication skills. Appropriate delivery pace was used.		There was some difficulty communicating ideas due to voice projection, lack of preparation, incomplete work, and/or insufficient eye contact. Insufficient use of non-verbal communication skills. Delivery pace is somewhat appropriate.			There was great difficulty communicating ideas due to poor voice projection, lack of preparation, incomplete work, and/or little or no eye contact. No use of non verbal communication skills. Inappropriate delivery pace was used.				
Interaction with Audience	Answers to questions are coherent and complete. Answers demonstrate confidence and extensive knowledge.		Most answers to questions are coherent and complete. Answers somehow demonstrate confidence and extensive knowledge.			Answers to questions are neither coherent nor complete. Is tentative or unclear in responses.				
Total score	= (y*5/16)									