



Syllabus: Epidemiology of Foodborne Diseases (2105021741

Second Semester 2021 /2022

COURSE INFORMATION	
Course Name: Epidemiology of Foodborne Semester: Second 2021/2022 Department: Clinical Nutrition and Dietetics Sciences Faculty: Applied Medical Sciences	Course Code: 2105021741 Section: Core Curriculum:
Day(s) and Time(s): Sunday: 13:00-16:00 Classroom: Building of Medical Schools 311	Credit Hours: 3 Prerequisites: None
COURSE DESCRIPTION	
To know the principles of epidemiology and its applications in studying foodborne diseases and poisonings, researching and evaluating the epidemiological patterns of food diseases, the severity and distribution of these diseases, in addition to studying methods for verifying their sources, analyzing risks, methods of transmission and controlling food diseases. The course .combines lectures, case studies, discussions, and a class project	
DELIVERY METHODS	
The course will be delivered through a combination of active learning strategies. These will include: <ul style="list-style-type: none"> • PowerPoint lectures and active classroom based discussion • Collaborative learning through small groups acting in an interdisciplinary context. • Tutorial sessions through engaging students in learning activities including analyzing results in the published articles or engaging in technical skills development. • Seminars by students who will take a leading role in the delivering a presentation, presenting a paper or discussing an idea. 	
FACULTY INFORMATION	
Name	Dr. Murad Al-Holy
Academic Title:	Professor
Office Location:	Medical complex, 2nd floor 2162
Telephone Number:	
Email Address:	Murad@ hu.edu.jo

Office Hours:	Mon- Thu.: 10.00:00 to 11:00 <i>Please send an e-mail us to meet at any other time.</i>
REFERENCES AND LEARNING RESOURCES	
Required Textbook:	
1. Readings and Resources: In addition to the text, supplementary readings and resources may be posted in the course site on Microsoft teams and the Moodle. The readings may be supplemented during the course	

COURSE LEARNING OUTCOMES

Number	Outcomes	Corresponding Program outcomes
Knowledge		
LO1	Assess the public health disease burden of key foodborne diseases	PLO1
LO2	Characterize the major bacterial, viral, and parasitic foodborne pathogens, including, for each, clinical presentations, epidemiology, points of entry into the food chain, and approaches to prevention.	PLO3
LO3	Understand the main approaches for the prevention and control of foodborne disease	PLO4
LO4	Study major causes of bacterial foodborne illness and investigate certain epidemiological studies on these causative agents.	PLO5, PLO7

STUDENT LEARNING OUTCOMES MATRIX*

Number	Learning Outcomes	Learning Method*	Assessment Method**
LO1	Assess the public health disease burden of key foodborne diseases	Lecture	Assignment
LO2	Characterize the major bacterial, viral, and parasitic foodborne pathogens, including, for each, clinical presentations, epidemiology, points of entry into the food chain, and approaches to prevention.	Flipped class	Report
LO3	Understand the main approaches for the prevention and control of foodborne disease	Lecture	Exam
LO4	Study major causes of bacterial foodborne illness and investigate certain epidemiological studies on these causative agents.	presentations	Term paper

Weekly lecture schedule and content distribution

Week	Topic	Learning Methods	Tasks
1	1. Basic Epidemiology Information	Lecture	Short report
2	2. Estimates of major foodborne pathogens (Scallan et al., 2011) 3. Emergence of antibiotic resistance	Collaborative learning	Quiz
3	4. Epidemiology, Cost, and Risk Analysis of Foodborne Disease	Lecture	
4	5. Foods associated with foodborne illness	Flipped class	Quiz
5	6. Burden of foodborne disease	Lecture	
6	7. Prevention and control of foodborne disease	Lecture	
Midterm exam			
7-11	1- Examples of Foodborne disease outbreaks a- Chemical intoxications b- Staphylococcal food poisoning c- Botulism d- <i>Clostridium perfringens</i> food poisoning e- <i>Bacillus food poisoning</i> f- Salmonellosis g- Shigellosis h- Listeriosis i- <i>Cronobacter</i> outbreaks	Lecture	Assignment
12-15	Students' project presentation and discussion	Presentations	presentation and term paper
Final exam			

* Includes: Lecture, flipped Class, project-based learning, problem-solving based learning, collaborative learning

ACADEMIC SUPPORT

The Hashemite University policy is 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

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.

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
Midterm exam	30%	
Term paper and Seminar	25%	
Final Exam (3)	45%	

Description of Exams

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. 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+	Pass	2.50
C	Pass	2.25
C-	Fail	2.00

Classroom Participation: Oral Presentation

Element	Excellent		Satisfactory			Needs Improvement				Score
	8	7	6	5	4	3	2	1	0	
Organization	<ul style="list-style-type: none"> There is a logical sequence of information. Title slide and closing slide are included appropriately. 		<ul style="list-style-type: none"> There is some logical sequence of information. Title slide and closing slides are included. 			<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Presentation covers topic completely and in depth. Information is clear, appropriate, and accurate. 		<ul style="list-style-type: none"> Presentation includes some essential information. Some information is somewhat confusing, incorrect, or flawed. 			<ul style="list-style-type: none"> Presentation includes little essential information. Information is confusing, inaccurate, or flawed. 				
Language	<ul style="list-style-type: none"> Spelling, grammar, usage, and punctuation are accurate. 		There are minor problems in spelling, grammar,			<ul style="list-style-type: none"> There are persistent errors in spelling, grammar, usage, 				

e	<ul style="list-style-type: none"> ▪ Fluent and effective 	usage, and/or punctuation.	and/or punctuation.	
Delivery	<ul style="list-style-type: none"> ▪ 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. 	<ul style="list-style-type: none"> ▪ 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. 	<ul style="list-style-type: none"> ▪ Less or not fluent and effective. ▪ 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	<ul style="list-style-type: none"> ▪ Answers to questions are coherent and complete. ▪ Answers demonstrate confidence and extensive knowledge. 	<ul style="list-style-type: none"> ▪ Most answers to questions are coherent and complete. ▪ Answers somehow demonstrate confidence and extensive knowledge. 	<ul style="list-style-type: none"> ▪ Answers to questions are neither coherent nor complete. ▪ Is tentative or unclear in responses. 	