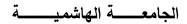
# The Hashemite University









# **Faculty of Applied Medical Sciences**

كلية العلوم الطبية التطبيقية

# Syllabus: Food Microbiology/ Practical (140502333) Second Semester 2021 /2022

COURSE INFORMATION			
Course Name: Food Microbiology	Course Code: 140502333		
Semester: Second 2021/2022	Section:		
<b>Department:</b> Clinical Nutrition and Dietetics Sciences	Core Curriculum:		
Faculty: Applied Medical Sciences			
Day(s) and Time(s): Monday: 8:00-11:00, 11:00-14:00	Credit Hours: 1		
Classroom: Food Microbiology Lab	Prerequisites: Medical		
	Microbiology/Practical		

#### **COURSE DESCRIPTION**

The course is a practical application of food microbiology. Bacteria and fungi used in food industry, and those that may cause food spoilage. Microbes transmitted with food and toxins produced by these microbes.

# **DELIVERY METHODS**

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active classroom based discussion
- Collaborative learning through small groups acting in an interdisciplinary context.

FACULTY INFORMATION		
Name	Dr. Amin Olaimat	
Academic Title:	Associate professor	
Office Location:	Department of clinical nutrition and dietetics	
Telephone Number:		
Email Address:	aminolaimat@hu.edu.jo	
Office Hours:	Sunday, Tuesday, Wednesday 12-1 pm	
	Please send an e-mail us to meet at any other time.	

# **REFERENCES AND LEARNING RESOURCES**

# **Required Textbook:**

- 1. Adams, M.R. and Moss, M.O.2008. *Food Microbiology*, 2<sup>nd</sup> edition. Royal Society of Chemistry, UK.
- 2. Jay, J.M. 2005. *Modern Food Microbiology*. Aspen Publishers, Inc. Gaithersburg, Maryland.

# **Suggested Additional Resources:**

1. Ray, B., and Bhunia, A.K. 2014. Fundamental Food Microbiology, 7th Edition, CRC Press (Taylor and. Francis group), Boca Raton, FL, USA.

Useful Web Resources: http://www.cdc.gov; http://www.fda.gov

# **COURSE LEARNING OUTCOMES**

Number	Outcomes	Corresponding Program outcomes
	Knowledge and Skills	
LO1	Understand the principles of microorganisms during various	PLO1
	food-processing and preservation steps	
LO2	Isolation, identification, and enumeration of the most	PLO1
	common microorganisms found in specific food products.	
LO3	Recognize specific types of microbial spoilage during	PLO3
	various food shelf life stages.	
LO4	Analyze different foods for presence of hazardous	PLO3
	microorganisms using traditional and modern food	
	microbiology technology	
LO5	Describe the situations where improper food handling and	PLO4
	storage may lead to the spoilage or contamination of food.	
LO6	Identify desirable microorganisms and their effects in	PLO5
	preservation and fermentation	

# **STUDENT LEARNING OUTCOMES MATRIX\***

Number	er Learning Outcomes	Learning	Assessment
Number	Learning Outcomes	Method*	Method**

LO1	Understand the principles of microorganisms	Lecture	Exam/quizzes/Reports
	during various food-processing and		
	preservation steps		
LO2	Isolation, identification, and enumeration of	Lecture	Exam/quizzes/Reports
	the most common microorganisms found in		
	specific food products.		
LO3	Recognize specific types of microbial spoilage	Lecture	Exam/quizzes/Reports
	during various food shelf life stages.		
LO4	Analyze different foods for presence of	Lecture	Exam/quizzes/Reports
	hazardous microorganisms using traditional		
	and modern food microbiology technology		
LO5	Describe the situations where improper food	Lecture	Exam/quizzes/Reports
	handling and storage may lead to the		
	spoilage or contamination of food.		
LO6	Identify desirable microorganisms and their	Lecture	Exam/quizzes/Reports
	effects in preservation and fermentation		

# **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.

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Location:

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#### **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.

# <u>The instructor has the right to fail the coursework or deduct marks where plagiarism is</u> 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
Exam 1	30%	10/04/2022
Exam 1	30%	15/05/2022
Final Exam (3)	40%	

#### **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
Α		3.75
A-		3.50
B+	Very Good	3.25
В		3.00
B-		2.75
C+	Good	2.50
С		2.25
C-		2.00

D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
1	Incomplete	-