



**Jordan University of Science and Technology**  
**Faculty of Dentistry**  
**Dental Surgery Department**

DENT202 Oral Physiology - JNQF Level: 7
Second Semester 2022-2023

Course Catalog
1 Credit Hours. This is one of the basic dental science courses offered by the Department of Oral Medicine and Surgery for second-year undergraduate dental students. The course aims to introduce students to the functions of the structures in the oral and maxillofacial compartment and to apply and understand the clinical significance of these functions. The lectures cover all the topics in the fields of oral and maxillofacial physiology needed by dental students during the pre-clinical stage of their training. The topics include the composition and function of human saliva, the physiology of general and special oral sensations, the physiology of mastication, swallowing, speech, and the dynamics of the masticatory system.

Text Book	
<b>Title</b>	Oral Bioscience
<b>Author(s)</b>	David Ferguson
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	In addition to most recent review articles related to the topics

Instructor	
<b>Name</b>	Dr. Melanie Alazzam
<b>Office Location</b>	D1L0
<b>Office Hours</b>	
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Class Schedule & Room
Section 1: Lecture Time: Thu : 10:00 - 11:00 Room: مدرج د. سعد حجازي

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	The Somatosensory System	Chapter 11 + Lecture Handout From Ref #1
Week 2	General Sensations in the Oral Cavity (Oral Tactile Sensations)	Chapter (11)+ Lecture Handouts From Ref #1
Week 3	General Sensations in the Oral Cavity (Oral Thermoreception)	Chapter (11)+ Lecture Handouts From Ref #1
Week 4	General Sensations in the Oral Cavity (Pain)	Chapter (11)+ Lecture Handouts From Ref #1
Weeks 5, 6	Pulpal and Dentinal Pain	Chapter (4)+ Lecture Handouts From Ref #1
Weeks 6, 7	Physiology of the TMJ	Chapter (12)+ Lecture Handouts From Ref #1
Weeks 7, 8	Mastication and Dynamics of Occlusion (Part 1)	Chapter (12)+ Lecture Handouts From Ref #1
Week 9	Mastication and Dynamics of Occlusion (Part 2)	Chapter (12)+ Lecture Handouts From Ref #1
Week 10	Special Sensations in the Oral Cavity (Taste)	Chapter (11)+ Lecture Handouts From Ref #1
Weeks 11, 12	Physiology of Salivary Production and Secretion	Chapter (6)+ Lecture Handouts From Ref #1
Weeks 12, 13	Swallowing	Chapter (12)+ Lecture Handouts From Ref #1
Weeks 13, 14	Speech	Chapter (13)+ Lecture Handouts From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the neurophysiology of pain with a special emphasis on dentinal and pulpal pain. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	14%	Midterm, Final
Recognize the physiology of general sensations perceived in the oral cavity including oral tactile sensations and thermoreception. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	18%	Midterm, Final
Describe the physiology, components, and dynamics of the masticatory system including the TMJ. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	24%	Midterm, Final

Recognize the physiology of special senses perceived in the oral cavity (taste). [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	11%	Final
Recognize the physiology of swallowing. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	11%	Final
Recognize the physiology of speech. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	11%	Final
Describe the physiology of salivary production and secretion. [11.2 Scientific Knowledge and Cognitive Skills] [1L7K1]	11%	Final

Relationship to Program Student Outcomes (Out of 100%)													
1.1 Scientific Knowledge and Cognitive Skills	1.2 Scientific Knowledge and Cognitive Skills	1.3 Scientific Knowledge and Cognitive Skills	1.4 Scientific Knowledge and Cognitive Skills	1.5 Scientific Knowledge and Cognitive Skills	1.6 Scientific Knowledge and Cognitive Skills	1.7 Scientific Knowledge and Cognitive Skills	2.1 Person-Centred Care	2.2 Person-Centred Care	2.3 Person-Centred Care	2.4 Person-Centred Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communication, Professionalism and Ethics
	100												

Relationship to NQF Outcomes (Out of 100%)	
	L7K1
	100

Evaluation	
Assessment Tool	Weight
Midterm	40%
Final	60%

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