



<b>Form: Study Plan- Bachelors</b>	Form Number	EXC-01-03-02A
	Issue Number and Date	2963/2022/24/3/2
		5/12/2022
	Number and Date of Revision or Modification	2/(10/12/2023)
	Deans Council Approval Decision Number	50/2023
	The Date of the Deans Council Approval Decision	26/12/2023
	Number of Pages	08

1.	School	School of Dentistry
2.	Department	All
3.	Program title (Arabic)	دكتور في طب الأسنان
4.	Program title (English)	Doctor of Dental Surgery (DDS)

#### 5. Components of Curriculum:

- The curriculum for the bachelor's degree in DDS consists of (210) credit hours distributed as follows

Number	Type of requirement	Credit hours
First	University Requirements	27
Second	School of Science Requirements (Basic Sciences)	18
Third	School of Medicine Requirements (Basic Medical Sciences)	54
Fourth	School of Medicine Requirements (Clinical Medical Sciences)	4
Fifth	King Abdullah II School for Information Technology Requirements	3
Sixth	School of Nursing Requirements	2
Seventh	School of Dentistry Requirements (Basic Dental Sciences)	28
Eighth	School of Dentistry Requirements (Clinical Dental Sciences)	74
Total		210

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## 6. Numbering System:

## A- Department number

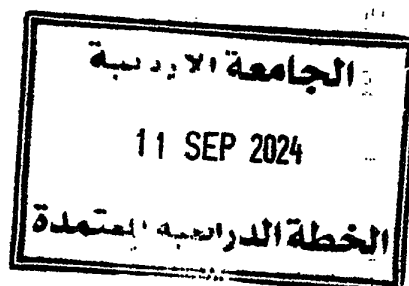
Number	Department
1	Oral and Maxillofacial Surgery, Oral Medicine, and Periodontology
2	Restorative Dentistry
3	Pediatric Dentistry, Orthodontics, and Preventive Dentistry.
4	Fixed and Removable Prosthodontics

## B- Course number

Domain number	Domain title	Domain number	Domain title
0	Dental Anatomy, Oral Histology and Occlusion	5	Oral Medicine, Oral Diagnosis, Oral Pathology and Dental Radiology
1	Restorative Dentistry	6	Oral Surgery and Anesthesiology
2	Dental Materials	7	Orthodontics
3	Periodontics	8	Pediatric Dentistry and Preventive Dentistry
4	Prosthodontics	9	Law & Ethics in Dentistry

## C- Course number consists of 7 digits

School	Department	Level	Serial number

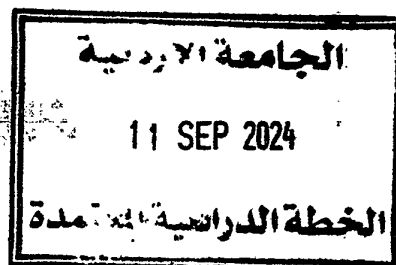




Preparatory Program Requirements (0-15) credit hours			
Course Title	Course No.	Credit Hours	Prerequisites
Arabic Language ( Level 1)	3201001	3	-
Arabic Language ( Level 2)	3201002	3	3201001
English Language ( Level 1)	3202001	3	-
English Language ( Level 2)	3202002	3	3202001
Basics of Computing	1932099	3	-

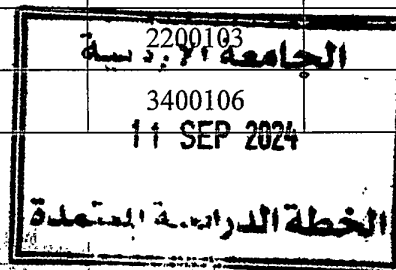
## First: University Requirements:

Compulsory Requirements (18 Credit Hours)			
Course Title	Course No.	Credit Hours	Prerequisites
Military Science	2220100	3	-
National Culture	3400100	3	-
Ethics and Social Responsibility	3410100	3	-
Entrepreneurship, Innovation and Leadership	3410101	3	-
English Language Level 3	3202003	3	3202002
Communication Skills and Soft skills in English	3420103	3	3202003 or 3202103



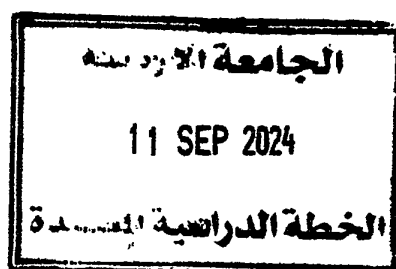


Electives			
(9 Credit Hours)			
Elective courses: (9) credit hours to be chosen from the first, second and third groups mentioned below. The student has to choose one course from each of the groups provided that courses chosen are outside the specialization area of the students.			
(First Group)			
	Course Title	Course No.	Credit Hours
	Environmental Culture and Development	0310102	3
	Islamic Culture	0400102	3
	Health Culture	0720100	3
	Legal Culture	1000102	3
	Physical Fitness Culture	1100100	3
	Tourism Culture	3400111	3
	Introduction to Philosophy and Critical Thinking	3400103	3
Electives			
(Second Group)			
	Course Title	Course No.	Credit Hours
	Islam and Contemporary Issues	0400101	3
	Arab-Islamic Civilization	2300101	3
	Jordan: History and Civilization	2300102	3
	Great Books	3400107	3
	Jerusalem	3400108	3
	Social Media	1900101	3
	Appreciation of Arts	200103	3
	Foreign Language	2200103	3
	Special Subject	3400106	3





Electives (Third Group)			
	Course Title	Course No.	Credit Hours
	Special Topic in Digital Skills	1900104	3





**Second:** School courses: distributed as follows:

A. Obligatory school courses: ( 25 ) credit hours

B. Elective school courses: ( 0 ) credit hours

A. Obligatory school courses: ( 25 ) credit hours:

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
School of Science [18 CH]					
0342105	Physics for medicine and dentistry	3	-	3	-
0303101	General Chemistry 1	3	-	3	-
0304101	General Biology 1	3	-	3	-
0333233	Organic Chemistry for non-chemistry majors	3	-	3	0303101
0304105	Cell biology	3	-	3	-
0302110	Biophysics for dental students	3	-	3	
School of Medicine					
0501113	Introduction to Biochemistry and Molecular Biology	3	-	3	-
King Abdullah School of IT					
1900103	Modern Digital Skills	3	-	3	-
School of Dentistry					
1300103	Introduction to Dentistry	1	-	1	-
	TOTAL	3		25	

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**Third:** Specialty courses: (158) credit hours distributed as follows:

A. Obligatory specialty courses: (158 ) credit hours

B. Elective specialty courses: ( 0) credit hours

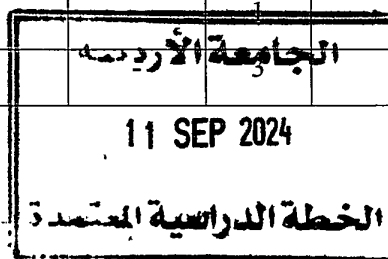
A. Obligatory specialty courses: ( 158 ) credit hours as follows:

1- School of Nursing Requirements: (3) credit hours:

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
0701217	First Aid for dental students	2	-	2	
	TOTAL			2	

2- School of Medicine requirements [pre-clinical] (51) credit hours: as follows

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
0502209	General Anatomy and Embryology	3	2	4	-
0502111	General Histology	3	2	4	-
0512220	Head and neck anatomy and neuroanatomy	4	2	5	
0551228	Physiology 1	3	2	4	
0541229	Physiology 2	3	2	4	
0501223	Metabolism	3	-	3	
0504210	Introduction to pathology, microbiology & immunology	3	-	3	
0513201	Introduction to pharmacology	1		1	
0554311	Pathology 1	3			





0554313	Microbiology 1	3	-	3	
0543201	Pharmacology 1	3	-	3	
0554312	Pathology 2	3	-	3	
0554314	Microbiology 2	3	-	3	
0553202	Pharmacology 2	3	-	3	
0505206	Community Medicine, Epidemiology and Biostatistics	3	-	3	
0544315	Genetics	1	-	1	
0538301	Behavioral Medicine	1	-	1	
	TOTAL			51	

3- School of Medicine Requirements (Clinical Medical Sciences): (4) credit hours:

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
0508410	Internal Medicine for dental students	1	2	2	
0547411	General Surgery for dental students	1	2	2	
	TOTAL			4	

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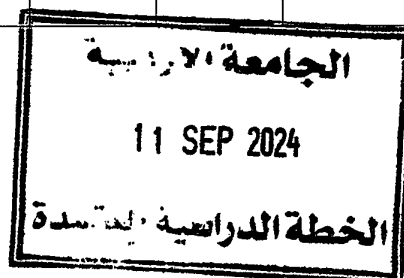




## 4- School of Dentistry Requirements (Basic Dental Sciences): (27) credit hours:

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1301207	Basic oral and maxillofacial sciences *	2	4	-	2	2	-	4
1300104	Clinical orientation and communication skills in healthcare *	1	-	2	1	1	-	2
1302202	Applied Dental Materials	1	1	-	-	-	1.5	1.5
1302301	Restorative Dentistry and Periodontics*	2	3	1	4	4	-	8
1304302	Prosthodontics and Occlusion *	1	3	1	3	3	-	6
1333483	Community and Preventive Dentistry*	1	-	-	1	1	-	2
1300301	Advanced communication skills	1	-	-	1	-	-	1
1300314	Professionalism and ethics 1	1	-	-	-	1	-	1
1300105	Introduction to dental diseases and prevention	1	-	1	-	-	1.5	1.5
	TOTAL							27

\*: extending over the first and second semesters





## 5- School of Dentistry Requirements (Clinical Dental Sciences): (74) credit hours:

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1300106	Introduction to clinical dentistry	-	-	2	-	-	1	1
1301350	Oral and maxillofacial radiology	2	-	-	-	-	2	2
1301357	Anesthesia and Pain management	1.5	1	-	-	-	2	2
1302401	Restorative Dentistry *	2	4	8	4	4	-	8
1304401 1314401	Prosthodontics*	2	4	6	3	4	-	7
1331433 1341433	Periodontology-1*	2	-	4	2	2	-	4
1301460	Oral and maxillofacial surgery 1*	2	-	4	2	2	-	4
1301461	Oral and maxillofacial diseases *	2	-	4	2	2	-	4
1331457	Clinical Radiography	-	-	2	1	-	-	1
1333473 1343473	Orthodontics 1*	2	2	-	1	2	-	3
1333485 1343485	Pediatric Dentistry 1*	1	2	2	2	1	-	3

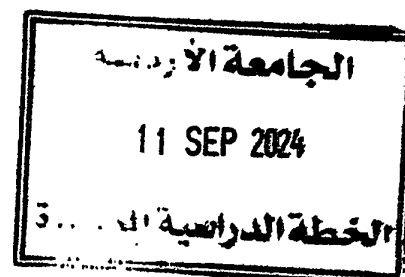


1300402	Research and evidence based dentistry*	1	-	-	0.5	0.5	-	1
1300401	Professionalism and ethics 2	1	-	-	1	-	-	1
1300500	Comprehensive and multidisciplinary dentistry *	2	-	20	6	6	-	12
1333585 1343585	Pediatric Dentistry 2*	1	-	4	2	1	-	3
1301561 1311561	Oral and maxillofacial surgery 2*	1	-	4	2	1	-	3
1331434 1341434	Periodontology 2*	1	-	4	2	1	-	3
1333474	Orthodontics 2*	1	-	-	0.5	0.5	-	1
1301501	Advanced oral and maxillofacial diseases *	1	-	2	1	1	-	2
1301502	Therapeutics and management of medically compromised patients	1	-	-	1	-	-	1
1303500	Outreach Dentistry *	1	-	4	1	1	-	2
1300502	Elective course 1	1	-	-	1	-	-	1
1300503	Elective course 2	1	-	-	-	1	-	1
1304501	Implant dentistry	1	-	-	-	1	-	1
1301505	Special care dentistry	1	-	-	-	-	-	1



1300504	Practice management and marketing	1	-	-	-	1	-	1
1302501	Modern concepts in restorative dentistry	1	-	-	-	1	-	1
	TOTAL							74

\*: extending over the first and second semesters

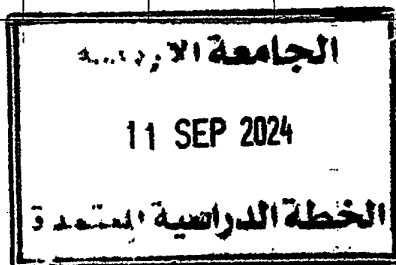




## Oral and Maxillofacial Surgery, Oral Medicine, and Periodontology

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1301207	Basic oral and maxillofacial sciences *	2	4	-	2	2	-	4
1301350	Oral and maxillofacial radiology	2	-	-	-	-	2	2
1301357	Anesthesia and Pain management	1.5	1	-	-	-	2	2
1301460	Oral and maxillofacial surgery 1*	2	-	4	2	2	-	4
1301461	Oral and maxillofacial diseases *	2	-	4	2	2	-	4
1331457	Clinical radiography	-	-	2	1	-	-	1
1331433	Periodontology 1*	2	-	4	2	2	-	4
1301561 1311561	Oral and maxillofacial surgery 2*	1	-	4	2	1	-	3
1331434 1341434	Periodontology 2*	1	-	4	2	1	-	3
1301501	Advanced oral and maxillofacial diseases *	1	-	2	1	1	-	2
1301502	Therapeutics and management of medically compromised patients	1	-	-	1	-	-	1
1301505	Special care dentistry	1	-	-	-	1	-	1

\*: extending over the first and second semesters





## Restorative Dentistry

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1302202	Applied Dental Materials	1	1	-	-	-	1.5	1.5
1302301	Restorative Dentistry and Periodontics*	2	3	1	4	4	-	8
1302401	Restorative Dentistry *	2	4	8	4	4	-	8
1302501	Modern concepts in restorative dentistry	1	-	-	-	1	-	1

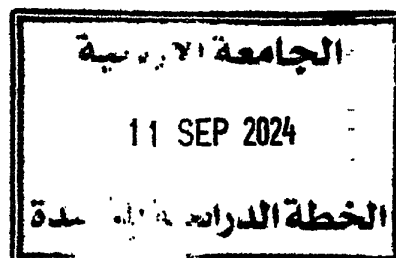
\*: extending over the first and second semesters



## Pediatric Dentistry, Orthodontics, and Preventive Dentistry

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1333483	Community and Preventive Dentistry	1	-		1	1	-	2
1333473 1343473	Orthodontics 1*	2	2	-	1	2	-	3
1333485 1343485	Pediatric Dentistry 1*	1	2	2	2	1	-	3
1333585 1343585	Pediatric Dentistry 2*	1	-	4	2	1	-	3
1333474	Orthodontics 2*	1	-	-	0.5	0.5	-	1
1303500	Outreach Dentistry *		-	4	1	1	-	2

\*: extending over the first and second semesters

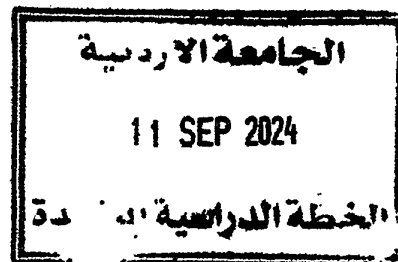




## Fixed and Removable Prosthodontics

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1304302	Prosthodontics and Occlusion *	1	3	1	3	3	-	6
1304401 1314401	Prosthodontics *	2	4	6	3	4	-	7
1304501	Implant dentistry *	1	-	-	-	1	-	1

\*: extending over the first and second semesters







## General topics

Course Number	Course Title	Contact Hours			Credit Hours			
		Theory	Practical	Clinical	1 <sup>st</sup> semester	2 <sup>nd</sup> semester	Summer semester	Total
1300103	Introduction to Dentistry	1	-		1	-	-	1
1300301	Advanced communication skills	1	-	-	1	-	-	1
1300314	Professionalism and ethics 1	1	-		-	1	-	1
1300105	Introduction to dental diseases and prevention	1		1			1.5	1.5
1300106	Introduction to clinical dentistry	-	-	2	-	-	1	1
1300104	Clinical orientation and communication skills in healthcare	1	-	2	-	1	1	-
1300402	Research and evidence based dentistry*	1	-	-	0.5	0.5	-	1
1300401	Professionalism and ethics 2	1	-	-	1	-	-	1
1300500	Comprehensive and multidisciplinary dentistry *	2	-	20	6	6	-	12
1300504	Practice management and marketing	1	-	-	-	1	-	1
1300502	Elective course 1	1	-	-	1	-	-	

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1300503	Elective course 2	1	-	-	-	1	-	1
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\*: extending over the first and second semesters

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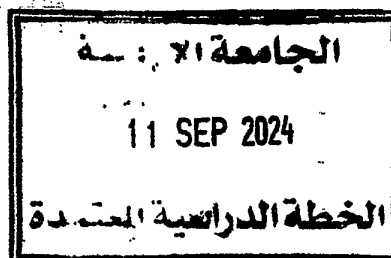
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## Fifth: Advisory Study Plan

First Year

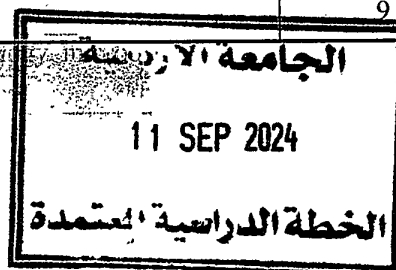
Semester	Course No.	Course Title	Credit hours
<b>First</b>	0303101	General Chemistry 1	3
	0304101	General Biology 1	3
	0342105	Physics for medicine and dentistry	3
	1900103	Modern Digital Skills	3
	-	University requirements	3
	Total		15
<b>Second</b>	0333233	Organic Chemistry for non-chemistry majors	3
	0304105	Cell Biology	3
	0302110	Biophysics for dental students	3
	1300103	Introduction to dentistry	1
	-	University requirements	3
	-	University requirements	3
	Total		16
<b>Summer</b>	0501113	Introduction to Biochemistry and Molecular Biology	3
	-	University Elective	3
	-	University Elective	3
	-	University Elective	3
	Total		12



**Second Year**

Semester	Course No.	Course Title	Credit hours
First	0532209	General anatomy and embryology	4
	0502211	General Histology	4
	0551228	Physiology 1	4
	0501223	Metabolism	3
	1301207	Basic oral and maxillofacial sciences *	2
	1300104	Clinical orientation and communication skills in health care*	1
	Total		18
Second	0512220	Head and neck anatomy and neuroanatomy for dental students	5
	0541229	Physiology 2	4
	0504210	Introduction to pathology, microbiology & immunology	3
	0513201	Introduction to pharmacology	1
	0505206	Community Medicine, Epidemiology and Biostatistics	3
	1301207	Basic oral and maxillofacial sciences *	2
	1300104	Clinical orientation and communication skills in health care *	1
	Total		19
Summer	1300105	Introduction to dental diseases and prevention	1.5
	1302202	Applied dental materials	1.5
	1300106	Introduction to clinical dentistry	1
	0701217	First Aid for dental students	2
		University Elective	3
	Total		9

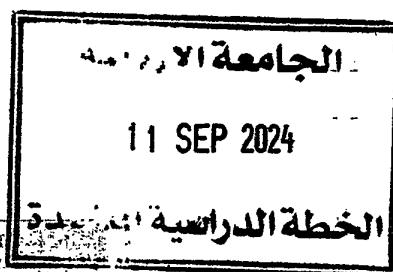
\*: extending over the first and second semesters



**Third Year**

Semester	Course No.	Course Title	Credit Hours
First	0554311	Pathology 1	3
	0554313	Microbiology 1	3
	0543201	Pharmacology 1	3
	0544315	Genetics	1
	1302301	Restorative Dentistry and Periodontics*	4
	1304302	Prosthodontics and Occlusion*	3
	1333483	Community and Preventive Dentistry*	1
	1300301	Advanced communication skills	1
	Total		19
Second	0554312	Pathology 2	3
	0554314	Microbiology 2	3
	0538301	Behavioral medicine	1
	0553202	Pharmacology 2	3
	1302301	Restorative dentistry and Periodontics*	4
	1304302	Prosthodontics and Occlusion*	3
	1333483	Community and Preventive Dentistry*	1
	1300314	Professionalism and ethics 1	1
	Total		19
Summer	1301350	Oral and Maxillofacial Radiology	2
	1301357	Anesthesia and Pain Management	2
		University Elective	3
		University Elective	3
	Total		10

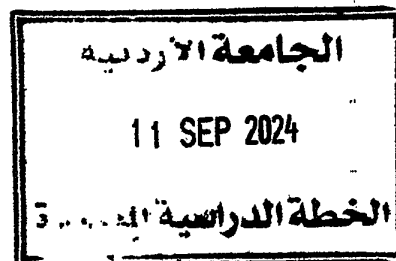
\*: extending over the first and second semesters



**Fourth Year**

Semester	Course No.	Course Title	Credit Hours
First	1302401	Restorative Dentistry *	4
	1304401	Prosthodontics *	3
	1331433	Periodontology 1*	2
	1301460	Oral and Maxillofacial Surgery 1*	2
	1301461	Oral and Maxillofacial Diseases *	2
	1331457	Clinical Radiology *	1
	1333473	Orthodontics 1*	1
	1333485	Pediatric Dentistry 1*	2
	1300401	Professionalism and Ethics 2	1
	0548410	Internal Medicine for Dental Students	2
	Total		20
Second	1302401	Restorative Dentistry *	4
	1314401	Prosthodontics *	4
	1331433	Periodontology 1 *	2
	1301460	Oral and Maxillofacial Surgery 1 *	2
	1301461	Oral and Maxillofacial Diseases *	2
	1343473	Orthodontics 1*	2
	1343485	Pediatric Dentistry 1*	1
	0547411	General Surgery for Dental Students	2
	Total		19
Summer	1300400	Elective training	0
	Total		0

\*: extending over the first and second semesters



**Fifth Year**

Semester	Course No.	Course Title	Credit Hours
First	1300500	Comprehensive and multidisciplinary dentistry*	6
	1333585	Pediatric Dentistry 2*	2
	1301561	Oral and Maxillofacial Surgery 2 *	2
	1331434	Periodontology 2*	2
	1333474	Orthodontics 2*	0.5
	1301501	Advanced Oral and Maxillofacial Diseases*	1
	1301502	Therapeutics and Management of Medically Compromised Patients	1
	1300502	Elective course 1*	1
	1303500	Outreach Dentistry*	1
	1300402	Research and Evidence Based Dentistry*	0.5
	Total		17
Second	1300500	Comprehensive and Multidisciplinary Dentistry*	6
	1343585	Pediatric Dentistry 2*	1
	1311561	Oral and Maxillofacial Surgery 2*	1
	1341434	Periodontology 2*	1
	1333474	Orthodontics 2*	0.5
	1304501	Implant Dentistry	1
	1301501	Advanced Oral and Maxillofacial Diseases*	1
	1301505	Special Care Dentistry	1
	1300504	Practice Management and Marketing	1
	1302501	Modern Concepts in Restorative Dentistry	1
	1300503	Elective Course 2	1
	1303500	Outreach Dentistry*	1
	1300402	Research and Evidence Based Dentistry*	0.5
	Total		17

\*: extending over the first and second semesters

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## Course Description

### School of Dentistry

#### First Year

#### General Chemistry 1

3 Credit Hour

Pre-request (none)

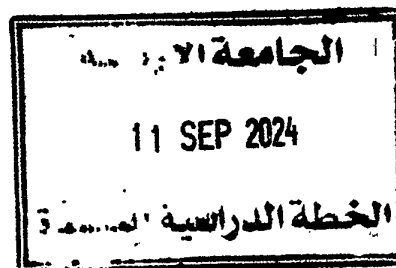
This course is designed to give a general overview of the basic concepts of general chemistry, topics include: matter and measurements, stoichiometry, chemical reactions, gaseous state, electronic structure, chemical bonding, properties of solutions, thermochemistry, reaction kinetics and chemical equilibrium.

#### General Biology 1

3 Credit Hour

Pre-request (none)

This course introduces students to the principles and concepts of biology. It covers basic cell biology with emphasis on biological chemistry, cell structure and function, cellular metabolism, respiration and cellular division. In addition, to emphasis on organisms, biodiversity, plant and animal systems and ecology. In addition, students are made familiar with the basics of genetics; molecular biology of genes and genetic technology.





**Physics for medicine and dentistry**

3 Credit Hour

Pre-request (none)

This course provides students with a clear and logical presentation of the basic concepts and principles of physics that are relevant to the medical field. The main topics include: velocity and acceleration, Newton's laws of motion, statistical equilibrium, work and energy, temperature and behavior of gases, the first law of thermodynamics, thermal properties of matter, mechanics of non-viscous fluids, mirrors, lenses and the human eye. In addition to radioactivity; interaction of radiation with matter, radiation units, harmful effects of radiation and applications of radiation in medicine.

**Modern Digital Skills**

3 Credit Hour

Pre-request (none)

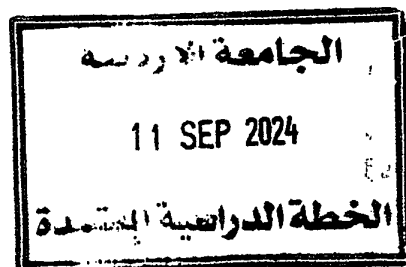
This course provides an overview of the Internet, Internet protocols and the World Wide Web. It includes: Internet technology and its various services such as emails, FTP, remote control and chat. Study the principles of navigation, search engines and portals, design and implement websites using Hypertext Markup Language and include how to add images, links, lists, tables, forms, frames to web pages. Students will be introduced to using Cascading Style Sheets and JavaScript.

**Biophysics**

3 Credit Hour

Pre-request (none)

This course aims to provide students with the basic concepts in biophysics with particular emphasis on concepts related to dentistry including materials properties, radiation physics, adhesion and material interaction, mechanical testing of materials and interface, and mechanobiology of tissues, cells and biofilms. Applications related to dentistry are given thorough the course.





### Organic Chemistry for non-chemistry majors

3 Credit Hour

Pre-request (none)

The organic chemistry component covers: the structure and properties of all functional groups of organic compounds including hydrocarbons, alkanes, cycloalkanes, alkenes, alkynes, aromatic compounds, halides, alcohols, phenols, ethers, amines, carbonyl compounds and carboxylic acids. The stereochemistry of organic compounds will be discussed. Applications related to medicine will be given throughout the course.

### Introduction to Biochemistry and Molecular biology

3 Credit Hour

Pre-request (none)

This three-credit hour course is mandatory for second-year dental students. The course is designed to introduce dental students to biochemistry via covering the basic concepts of structures and functions of macromolecules, detailed information of enzymes, their mechanisms of action, regulation and their association to medicine, as well as cofactors critical for enzyme function. In addition, basic topics of molecular biology will be covered along with the basic molecular mechanisms and techniques applied.

### Cell biology

3 Credit Hour

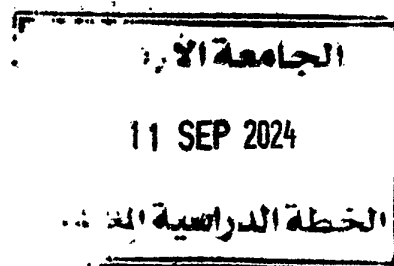
Pre-request (none)

This course provides students with a comprehensive description of cellular biology from functional and structural prescriptive, it also explains cellular division and changes and genetic composition. In addition, to introduction to biochemistry through the study of composition of biological molecules and their function, including water properties and pH and its role in cellular function

### Introduction to Dentistry

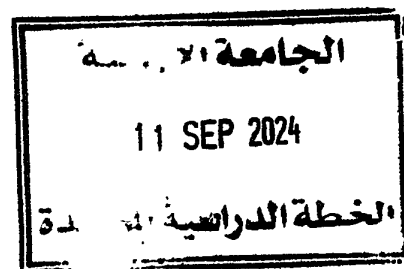
1 Credit Hour

Pre-request (none)





This course is designed to provide students with an overview about dentistry. Aspects discussed in this course include history of dentistry, importance, relevance to human overall health, fields of practice, skills required to practice dentistry, challenges of the study and practice, and related sciences.





## Second Year

### **General anatomy and embryology**

4 Credit Hour

Pre-request (none)

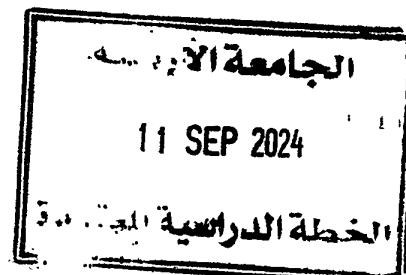
The objective of this course is to introduce students to general human anatomy enabling them to distinguish between various anatomical structures. The course covers the general features of the upper and lower limbs with their nerve and blood supply. The course also focuses on the general features of the thoracic cavity and its main organs such as the heart, major blood vessels and lungs, the main organs of the abdominal cavity and an overview of the central nervous system. In addition, the course includes a general overview of the fetal development; from fertilization, implantation, the subsequent development of the embryo within the uterus until birth, it also includes the study of the placental formation, the surrounding tissues, and the organogenesis with a focus on certain diseases associated with fetal development. The practical component to be delivered in the dissection room (2 hours/week) to cover the theory topics.

### **General Histology**

4 Credit Hour

Pre-request (none)

The course covers aspects related to basic tissues; epithelium, connective tissue (including: adipose tissue, bone and cartilage), muscles and nerves. The theory component to be delivered through lectures on microscopic and submicroscopic structure of cells and tissues of the human body. The practical component to be delivered as laboratory sessions (2 hours/week), to examine and analyze light and electron microscopic features of tissues. In addition, it covers the main histological features of major body systems including cardiovascular, lymphatic, gastrointestinal, respiratory, endocrine, urinary system and their clinical correlations.





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**Physiology 1**

4 Credit Hour

Pre-request (none)

The core lectures are organized around a systems approach to the study of physiology, concentrating on each basic structural and functional unit of the human body. Emphasis is on understanding how cellular and organ systems function and how they are integrated and regulated by the body to maintain homeostasis. Human Physiology includes cellular, muscle and nerve physiology, cardiovascular, and gastrointestinal. It is primarily a lecture-based course.

**Metabolism**

3 Credit Hour

Pre-request (none)

This course is mandatory for second-year dental students. The course is preceded by biochemistry I where the introduction to biochemistry via covering the basic concepts of structures and functions of macromolecules has been given. In this course, a detailed description of the various metabolic processes will be given. This includes structure-function relationship of specific proteins, metabolism of energy, carbohydrates, lipids, proteins, and nucleic acids, followed by a brief material that covers nutrition and vitamins with respect to the human body.

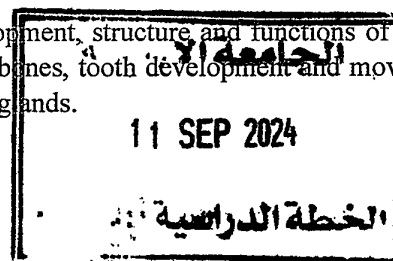
**Basic oral and maxillofacial sciences**

4 Credit Hour

Pre-request (none)

This course provides education for competent preclinical preparation of basic medical and dental sciences for dental students. It encompasses the disciplines of genetics, biochemistry, biophysics, cytology, embryology and craniofacial development, physiology, microbiology and microanatomy related to oral and maxillofacial region. This is a multidisciplinary course involving oral anatomy and histology, oral and maxillofacial embryology, oral and maxillofacial physiology and oral microbiology. The course is taught over a period of one year for 2<sup>nd</sup> year students.

The course provides a thorough knowledge of the development, structure and functions of the oral cavity and associated structures. This includes the facial bones, tooth development and movements, dental hard tissues, temporomandibular joint and salivary glands.





Students are expected to gain basic and advanced knowledge and skills in understanding the structure, growth, development, healing properties of the oral cavity, related soft and hard tissues and organs, and associated craniofacial areas. In addition, it includes description of physiology of mastication and swallowing, biochemistry and physiology of saliva, aetiology and histology of caries, plaque ecology, wound healing and oral microbiome.

This course will be divided to four modules: dental morphology and anatomy, oral and maxillofacial histology, oral embryology and physiology, and oral microbiology.

### **Clinical orientation and communication skills in healthcare**

2 Credit Hour

Pre-request (none)

This course aims to introduce students to clinical environment. Aspects covered in this course include introduction to clinical practice, the clinical environment, professional practice, the dental clinic, relevant clinical terminology. Students are also required to attend clinical sessions and shadow their fellows in clinical years.

### **Head and Neck Anatomy and Neuroanatomy**

5 Credit Hour

Pre-request (none)

This course is designed to provide students with detailed knowledge about the anatomical structures of the head and neck and their clinical relevance. It includes the bones of the skull, the structure of the scalp, muscles of facial expressions, the cranial cavity and its contents, muscles of mastication, the temporomandibular joint (TMJ), the infra-temporal and pterygopalatine fossa, the nose, the mouth and tongue. The course also includes the cervical bones, the fascial coverings of the neck, cervical plexus, triangles of the neck, pharynx, larynx, orbital cavity and the ear. The course also focuses on the development of the head and neck and their common congenital anomalies. The practical component to be delivered in the dissection room to cover the theoretical topics.

In addition, this covers the central and peripheral nervous systems, sympathetic and parasympathetic nervous systems. It also covers the gross appearance of the spinal cord, its tracts and blood supply. It describes the brain and its ventricular system, cerebrospinal fluid, blood supply, brainstem, cerebellum,



reticular formation, the limbic system, basal ganglia, thalamus and cranial nerves with their associated major clinical correlations.

**Physiology 2**

4 Credit Hour

Pre-request (none)

This medical physiology course is designed to provide students with an understanding of the physiological principles needed for the practice of dental profession. It covers a range of topics from the integrated physiology of organ systems. The course covers respiratory physiology, physiology of the endocrine system, physiology of renal system, as well as the neurophysiology of the central nervous system and special senses. It is primarily a lecture-based course.

**Introduction to Pathology,  
microbiology and Immunology**

3 Credit Hour

Pre-request (none)

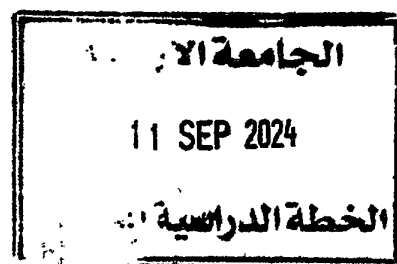
This course aims to provide students with introductory knowledge about the basics of disease mechanisms and development. The course covers basic concepts including cell injury, inflammation, neoplasia, and the body defense mechanisms against infection by micro-organisms.

**Introduction to Pharmacology**

1 Credit Hour

Pre-request (none)

This course introduces students to the basic concepts of pharmacology including pharmacodynamics, pharmacokinetics, drug actions and interactions.



**Community Medicine, Epidemiology  
and Biostatistics**

3 Credit Hours

Pre-request (none)

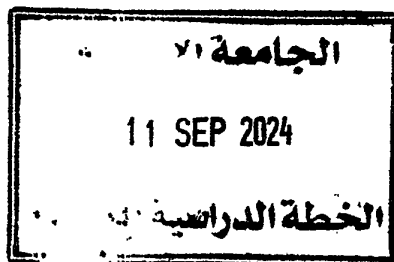
This course emphasizes on the nature and characteristics of the most commonly used statistical techniques (data collection, sampling principles, graphical techniques for data display, probability distributions, parametric estimation and testing techniques, simple linear regression and correlation, multiple regression, categorical data analysis, and ANOVA), and their applicability to specific health care problems within the context of medicine. Statistical concepts will be presented and enhanced through the use of numerous "real life" data sets for describing central tendency and variability in data; statistical hypothesis testing and its application to group comparisons; issues of power and sample size in study designs; and random sample and other study types will be emphasized.

**Applied Dental Materials**

1.5 Credit Hour

Pre-request (none)

The aim of this course is to enable the students to understand material properties and characteristics such as strength, hardness, elasticity, safety...etc. In addition, the course contains practical component to allow students to correlate properties of biomaterials to their applications and uses in dentistry. This course discusses the biological, chemical, and physical properties of biomaterials used in dentistry and their applications. This course deals with the most common materials used in dentistry. It emphasizes the handling and the appreciation of the various properties of these materials during clinical work. Dental materials related to laboratory work are also discussed, and the student is assisted in understanding and developing good knowledge of these materials used by the technician to satisfy the specific requirements of patients. Experts from outside the University might be hosted to give components of this course.





**First Aid for dental students**

2 Credit Hour

Pre-request (none)

The course prepares students for carrying out the basic emergency care. The purpose of this course is to train dental students to respond appropriately to emergency situations. The course also teaches students to recognize emergencies, make first aid decisions, and provide care with accessible resources.

**Introduction to dental diseases and prevention**

1.5 Credit Hour

Pre-request (none)

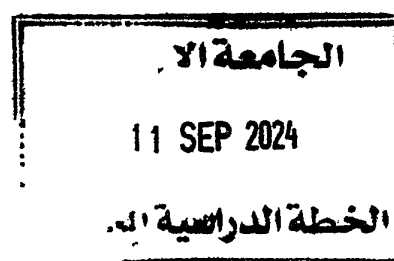
The course provides students with essential knowledge about the pathology and mechanisms of common dental and periodontal diseases including dental caries, pulpal and periapical diseases, gingivitis and periodontitis. The course also introduces students to the basic concepts of preventing dental and oral diseases. The course is supplemented by a practical component to allow students to explore the practical and clinical aspects of dental diseases and their prevention. Experts from outside the University might be hosted to give components of this course.

**Introduction to Clinical Dentistry**

1 Credit Hour

Pre-request (none)

This course introduces the clinical dentistry and combines the basic scientific information. It pays special attention to the newer development in history-taking and patient-evaluation techniques, including a review of the diverse approaches now used both in instructional and clinical setting. Also, the course focuses on drugs used in dentistry, occupational hazards and cross infection. This course also familiarizes the student with the dental offices environment and receiving patients. The student is taught to perform a thorough evaluation, taking dental and medical histories, examination of the patients, take necessary intra-oral radiographs, make differential diagnosis and develop a treatment plan that takes all relevant information into account. Experts from outside the University might be hosted to give components of this course.



**Third Year****Pathology 1**

3 Credit Hours

Pre-request (none)

This four-credit hour course is mandatory for third-year dental students. The course is designed to introduce dental students to pathology via covering the basic pathology including cell injury, inflammation, neoplasia, and circulatory disorders. In addition, diseases of cardiovascular, respiratory and hematology systems are covered in the first semester.

**Microbiology 1**

3 Credit Hours

Pre-request (none)

This course is intended to introduce basic and important characteristics of normal body flora, bacteria causing human infection as well as how to diagnose, control and prevent such diseases. It is also intended to introduce basic concepts of immunology, the body defense mechanisms against infection by micro-organisms, together with diseases that are a result of immune system dysfunction.

**Pharmacology 1**

3 Credit Hours

Pre-request (none)

This course explores pharmacodynamics, pharmacokinetics, drug actions and interactions. Also the course focuses on fundamental principles in systems pharmacology and their applications, with emphasis on dental applications and implications of the drugs affecting each system.

**Pathology 2**

3 Credit Hours

Pre-request (none)

This three credit hour course is mandatory for third-year dental students. The course is designed to introduce dental students to systematic pathology via covering the pathology of the head and neck, CNS, GI tract, Male and female genital systems as well as renal and musculoskeletal system.

**Microbiology 2**

3 Credit Hours

Pre-request (none)

This course is intended to introduce basic and important characteristics of viruses, fungi and parasites causing human disease as well as how to diagnose, control and prevent such diseases. It is also intended to introduce basic concepts of oral immunology and the normal flora of the oral cavity.

**Genetics**

1 Credit Hours

Pre-request (none)

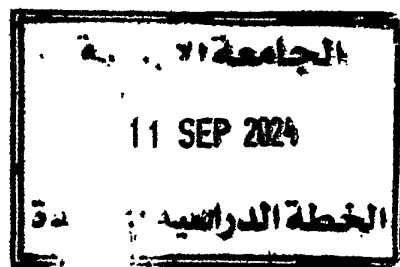
This is a one-credit hour course for third-year dentistry students. The course is designed to introduce students to the basics of genetics in relation to various genetic disorders.

**Pharmacology 2**

3 Credit Hours

Pre-request (none)

The course is a continuation of pharmacology 1 course. The course continues on fundamental principles in systems pharmacology and their applications, with emphasis on dental applications and implications of the drugs affecting each system.



**Behavioral medicine**

1 Credit Hours

Pre-request (none)

The course aims to provide dental students with necessary knowledge in psychology and human behavior relevant to the practice of medicine in general and dentistry in particular.

**Restorative Dentistry and  
Periodontics**

8 Credit Hours

Pre-request (none)

This course aims to build up the knowledge, practical and clinical skills required to enable students to do non-surgical periodontal prevention and therapy, minimal invasive dentistry for the adult patients and also would serve an induction to general restorative work including direct restorations, endodontic therapy and cuspal coverage indirect restorations.

The course shall provide students with knowledge and skills required for

- Diagnosis, prevention and management of Plaque induced gingival diseases
- Preventive and minimally invasive treatment of dental caries.
- Vital pulp therapy and conventional endodontics.
- Partial coverage and full coverage indirect restorations limited.
- Occlusal consideration related to restorative treatments.

Theoretical knowledge is presented through classical lectures and group discussions (1 hour per week), CAT projects (critical appraisals). Practical sessions will be delivered in the phantom head lab (3 hours per week) where students will be trained into initial periodontal therapy, Preventive resin restorations, direct restorations, vital pulp therapy simple and molar endodontics, inlays, onlays and full cuspal coverage including endocrowns.

Students will be also trained on clinical facilities (on fortnight basis and on alternating Perio/operative clinics). Students will be expected to provide initial periodontal and restorative assessment and provide initial preventive, periodontal and minimal preventive restorations while also providing assistance for

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4<sup>th</sup> and 5<sup>th</sup> year students while those senior students are performing endodontic and cuspal coverage restorations. Experts from outside the University might be hosted to give components of this course.

### **Prosthodontics and Occlusion**

6 Credit Hours

Pre-request (none)

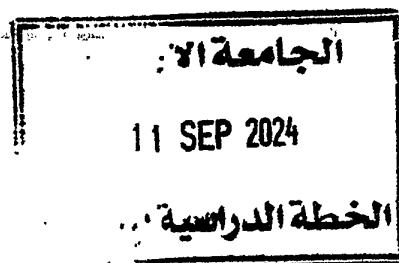
This course introduces the student to explore and understand materials and instrument used in restoration of teeth with emphasis on patient and practitioner position during treatment. This course assists the student to apply performance to operative procedures and cavity preparation on simulator. Experts from outside the University might be hosted to give components of this course.

### **Community and Preventive Dentistry**

2 Credit Hour

Pre-request (none)

This course introduces 3<sup>rd</sup> year dental students to the concepts of oral disease etiology, risk assessment and prevention on both an individual and community level. The course includes theory classes that provide the students with knowledge on a variety of topics relevant to Preventive and Community Dentistry across two semesters. Topics taught include: dental caries and periodontal disease etiology, oral disease risk assessment and early diagnosis, current approaches to oral disease prevention, principles of Dental Public Health and Epidemiology, current oral health status and dental care system in Jordan, and finally, applying the skills and knowledge gained in this course in community oral health promotion planning and delivery. As part of the course, students will take part in outreach visits to deliver oral health promotion to children in schools and other vulnerable populations in the wider community. Experts from outside the University might be hosted to give components of this course.



**Advanced Communication Skills**

1 Credit Hours

Pre-request (none)

This course aims to provide students with basic principles of communication skills that are needed for clinical practice. It outlines different communication strategies, as well as different models and approaches that can be applied in clinical settings. It focuses on the different aspects of communication between the dental team and the patient at all levels and steps of the treatment.

This course aims to provide students with further knowledge and understanding of communication skills needed in clinical settings. It covers advanced aspects of communicating with the patients, such as in stressful situations, dealing with patients with unrealistic expectations, patients with cognitive disabilities, and children. Experts from outside the University might be hosted to give components of this course.

**Professionalism and Ethics 1**

1 Credit Hour

Pre-request (none)

This course aims to provide students with basic principles of professionalism in healthcare practice. It introduces students to the principles of professional behavior they would encounter in their daily life in the clinical setting. It emphasizes on patient rights from different aspects to allow the students to enter the clinical training with the required information regarding the rights of their patients and the best practices in terms of professional conduct. Experts from outside the University might be hosted to give components of this course.

**Oral and Maxillofacial Radiology**

2 Credit Hours

Pre-request (none)

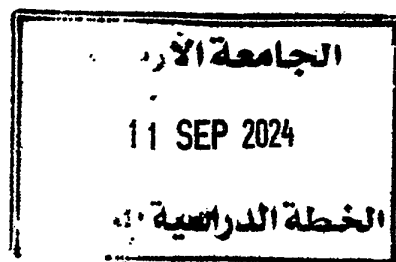
This course introduces the basic information of X-ray production, X-ray interaction with material and radiographic image production. The course focuses on the fundamental concepts of patient protection, radiographic techniques and image interpretation. This course assists the student to understand the scope of radiographic interpretation and its interaction with all other clinical dental sciences. It assists the student in interpreting the radiographs in conjunction with the clinical findings. Experts from outside the University might be hosted to give components of this course.

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**Anesthesia and pain management****2 Credit Hours****Pre-request (none)**

This course reviews the anatomy of the oral and peri-oral structures with emphasis on the trigeminal nerve. In addition to exploring the neurophysiology of nerve impulse transmission, it pays special attention to pharmacology of local anesthetic agents and various types and technical procedures of local anesthesia administration and their complications. It also includes general anesthesia and intravenous sedation in oral surgery. The course also provides student with necessary knowledge regarding strategies and techniques of pain control in dentistry. The course is supplemented by a practical component to allow students to practice various anesthetic techniques. Experts from outside the University might be hosted to give components of this course.



**Fourth Year****Restorative Dentistry****8 Credit Hours**

Pre-request (none)

This course aims to enable students to provide

The course shall enable student to provide the following competently:

- Diagnosis, treatment planning and maintenance of restorative needs of wide range of patients
- Preventive treatments, caries and periodontal diseases control and stabilization
- All types of direct restorations.
- Vital pulp therapy and conventional endodontics.
- Partial coverage and full coverage indirect restorations limited to single teeth
- Occlusal consideration related to restorative treatments.

Theoretical knowledge is presented through classical lectures and group discussions (1 hour per week), CAT projects (critical appraisals). Clinical sessions will be run twice weekly ( 6 hours of direct clinical restorative care) where students will be providing initial periodontal therapy, Preventive resin restorations, direct restorations, vital pulp therapy simple and molar endodontics, inlays, onlays and full cuspal coverage including endocrowns. Experts from outside the University might be hosted to give components of this course.

**Prosthodontics****7 Credit Hours**

Pre-request (none)

This course aims at introducing the student to clinical Prosthodontics through reviewing the basics and principles of removable prosthesis. It emphasizes the importance of selection of the case by examination, evaluation, diagnosis and treatment planning. It also explores the steps of construction (clinical and technical in laboratory), materials and equipment used to start by preparing the mouth for prosthesis and ending by denture insertion, post-insertion and recalls. This course provides the opportunity to the student to acquire clinical skills needed for the construction of removable dentures.

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The student is assisted to treat clinical cases and to construct conventional types of removable prosthesis. Experts from outside the University might be hosted to give components of this course.

### Periodontology 1

4 Credit Hour

Pre-request (none)

The course focuses on explaining the relationship between dental plaque and host immune response and its role in the pathogenesis of periodontal disease.

Students will acquire knowledge related to the examination, diagnosis, and prognosis of periodontal diseases and conditions. It includes topics on risk assessment and evaluation of patients with periodontal diseases as well as the principles of treatment planning in periodontology. The course allows the student to acquire knowledge on different approaches of non-surgical therapy used in the treatment of periodontal diseases. Moreover, it highlights the role of occlusion and the importance of furcation areas in the treatment of periodontal disease.

**Theoretical knowledge** is presented through classical lectures and case discussions.

The course is supplemented by a **clinical training** where students are expected to:

- 1- Take patient history, perform a detailed periodontal examination, reach a diagnosis, assign prognosis on both tooth and patient levels and formulate a treatment plan.
- 2- Perform non-surgical treatment for gingivitis cases and stage I and II periodontitis cases and re-evaluate the outcome of their therapy.

Experts from outside the University might be hosted to give components of this course.

### Clinical radiology

1 Credit Hour

Pre-request (none)

This course aims to teach the students how to perform basic intraoral radiographs and introduce them to normal radiographic anatomy. This course also makes the students able to choose the proper

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radiographic technique for certain clinical situations and identify clinical acceptable radiographs. Experts from outside the University might be hosted to give components of this course.

### Oral and Maxillofacial Surgery 1

4 Credit Hours

Pre-request (none)

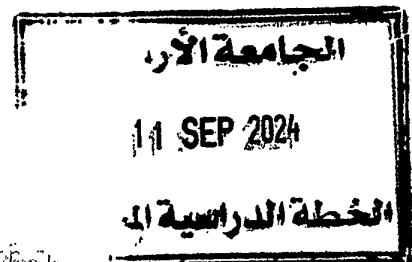
The course reviews the principles of oral surgery and sterilization. In addition to exploring exodontia and related subjects (anatomical considerations, instruments, techniques, instructions and complications), it discusses the basic principles of surgical extraction and special cases are presented. This course familiarizes the student with local anesthesia techniques, instruments and methods used for simple cases of extraction of teeth with emphasis on history-taking (dental and medical). Experts from outside the University might be hosted to give components of this course.

### Orthodontics 1

3 Credit Hours

Pre-request (none)

The course introduces the concepts of orthodontics. It emphasizes the craniofacial development & facial growth. Development of normal occlusion is explored as well as the etiology & classification of malocclusion. Special attention is paid to biomechanical principles and tissues reactions. Orthodontic assessment, diagnostic aids, treatment planning and interception. Treatment of some types of malocclusion is presented. The course familiarizes the student through laboratory work with instruments & materials used in the construction of removable orthodontic appliances. Student is trained to acquire skills needed for the construction of these appliances. Experts from outside the University might be hosted to give components of this course.



**Pediatric Dentistry 1**

3 Credit Hour

Pre-request (none)

The course reviews the principles and scope of dentistry for children and adolescents. The course emphasizes importance of acquiring a comprehensive approach for management of pediatric dental patient; special attention is paid to behavior, personality, examination (Physical & dental) diagnosis, and treatment planning, pain and anxiety control. Clinical applications of differences between primary and permanent teeth are discussed, and eruption of teeth with changes of the dental arches that occur during the period of eruption are explored. The importance of understanding medical problems and handicap are emphasized during dental and oral management. This course is intended to prepare the student with an understanding of the basic concepts necessary for the successful diagnosis and treatment of the child in the primary, mixed and permanent dentitions. Laboratory and seminar experiences are combined to simulate the various dental procedures and handling of the materials and instruments used in the treatment of the pediatric dental patient. Experts from outside the University might be hosted to give components of this course.

**Oral and Maxillofacial Diseases**

4 Credit Hour

Pre-request (none)

This is a multidisciplinary course involving oral medicine, oral pathology, and oral radiology, and is taught over a period of one year for 4<sup>th</sup> year students. The course provides students with knowledge required for diagnosis and management of oral and maxillofacial diseases including those of oral mucosa, jaw bone, and neighboring structures such as maxillary sinuses, salivary glands, cervical lymph nodes and TMJ. In addition, the course provides knowledge about diagnosis and management of orofacial pain and neurosensory disorders affecting the orofacial region. Theoretical knowledge is presented through classical lectures and through interdisciplinary clinic-pathological-radiological conferences (CPRC). The course is supplemented by a clinical training in the oral medicine clinic where students are expected to practice a wide range of clinical skills including history taking, examination techniques, interpretation of investigations, performing common clinical investigations including swabs and biopsies, prescription of medications, patient counselling and follow up. Experts from outside the University might be hosted to give components of this course.



### General Surgery for dental students

2 Credit Hour

Pre-request (none)

This course will cover the basic surgical principles in the diagnosis and treatment for some conditions. The concentration will be on surgical conditions commonly met in the field of Dentistry. This will include surgeries for brain and spine, orthopedics and trauma, burns and plastic surgeries, and pediatric surgery.

### Internal Medicine for dental students

2 Credit Hour

Pre-request (none)

The course provides dental students with theoretical and clinical knowledge of basic internal medicine concepts needed to provide dental care for patients safely. Students will learn specialized history taking and examination skills and will be trained on how to use diagnostic tools. The course provides an overview of the features and basic management of patients with certain medical diseases and disorders including cardiovascular disease, gastrointestinal disease, hematology, endocrinology, pulmonary and infectious diseases.

### Professionalism and Ethics 2

1 Credit Hours

Pre-request (none)

This course is the part of Professionalism courses group that starts with the first course in the third year "Professionalism in Healthcare". It aims to provide students with principles and foundations of professional behavior and conduct in the clinic when dealing with patients and other members of the healthcare team. It introduces students to the principles of reasoning in dental practice, as well as the professional and ethical conduct in relation to treatment planning. The course emphasizes on the



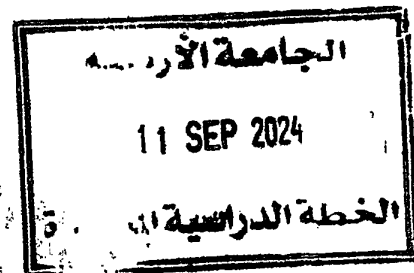
components of professionalism in clinical setting; safe environment, respect of colleagues, proper treatment planning, knowing own capacities and limitations, professional conduct with other members of healthcare team. In addition, it introduces the student to differences between small clinic settings versus hospital settings. Moreover, it allows students to understand the ethical principles of treatment costs. Experts from outside the University might be hosted to give components of this course.

**Elective Training**

0 Credit Hours

Pre-request (none)

This course aims to allow students to experience the work environment of clinics in different medical sectors without direct clinical supervision. During the external training period, the student will see the work pattern of dental clinics and get acquainted with different work environments. The student is required to document the external training experience in a special booklet to be approved by the college. Experts from outside the University might be hosted to give components of this course.



**Fifth Year****Comprehensive and  
Multidisciplinary Dentistry**

12 Credit Hours

Pre-request (none)

This course Allow students to integrate their knowledge, skills and expertise in various dental specialties to treat adult patients with multidisciplinary dental conditions and needs: surgical, periodontal, endodontic, restorative and prosthodontic specialties. By the end of this course, students will be able to:

1. Diagnose various conditions of the oral cavity and its related structures using proper diagnostic tools.
2. Develop a comprehensive treatment plan.
3. Arrange and prioritize treatment interventions.
4. Perform competently preventive and therapeutic procedures,
5. Develop critical thinking skills.
6. Carry out necessary communications with the patient, remainder of the dental theme including dental laboratory in a clear precise way.
7. Observe ethical rules and guidelines during various treatment steps.

Experts from outside the University might be hosted to give components of this course.

**Therapeutics and management of  
Medically compromised patients**

1 Credit Hours

Pre-request (none)

This course provides the student with the necessary knowledge to provide safe and effective dental care for patients with various systemic diseases. The course emphasizes the importance of patient assessment and the implications of systemic health on the oral cavity and the provision of dental treatment. The course also allows students to understand the basic principles of management of



medical emergencies in the dental clinic. Emphasis is also placed to cover topics related to relevant drugs in dentistry. Experts from outside the University might be hosted to give components of this course.

### Outreach Dentistry

2 Credit Hours

Pre-request (none)

The Dental Outreach Training Program places students in clinical work placements in primary care clinics. The aims of the outreach programs are to:

- encourage students to appreciate the ethical responsibility of dental professionals for the oral health of the whole community
- increase student understanding of the principles and particularly the practice of public health dentistry
- develop students' appreciation of the responsibilities and requirements of the practice environment
- consolidate students' awareness and develop their skills in the provision of comprehensive care for a range of patient groups

Experts from outside the University might be hosted to give components of this course.

### Implant Dentistry

1 Credit Hours

Pre-request (none)

This course provides students with the basic knowledge related to the field of oral implantology augmented with a preclinical surgical and prosthetic basic practical training. This is a multidisciplinary course focusing on the field of oral Implantology with the aim of enabling the students to become acquainted with the basic and practical aspects of Implant dentistry starting from the examination and treatment planning phase through the surgical and prosthetic treatment phases to the post insertion follow up and maintenance phase.

Theoretical knowledge is presented through classical lectures with the contribution of lecturers from the Dental Radiology, Prosthodontics, Oral Surgery and Periodontics departments.

Theoretical didactic teaching will be augmented with a workshop styled preclinical practical training to make the students familiar with the treatment steps required and the general workflow of dental Implant cases.



Furthermore, clinical exposure can be anticipated through clinical shadowing sessions and through the interim training later on. Experts from outside the University might be hosted to give components of this course.

## Periodontics 2

3 Credit Hour

Pre-request (none)

This course focuses on the management of advanced periodontal disease. It provides students with knowledge on the special considerations in children and elderly. The course introduces the concept of tissue engineering and its potential future implications in dentistry and periodontology. The course focuses on the management of stage III and Stage IV periodontitis patients with an emphasis on the role of antibiotics, open flap debridement, and resective and regenerative surgical options.

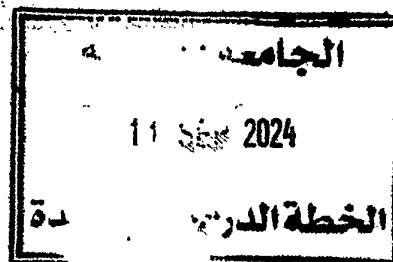
The course also allows the student to learn about different root coverage techniques and engage in the assessment and management of periodontal-restorative cases that require surgical intervention such as crown lengthening surgeries and gingivectomies.

**Theoretical knowledge** is presented through classical lectures and case discussions.

The course is supplemented by a **clinical training** where students are expected to:

- 1- Examine, diagnose, and manage gingivitis and periodontitis cases of different severity and complexity.
- 2- Perform non-surgical treatment for gingivitis cases, initial periodontitis stage I and II, and advanced periodontitis (stage III & IV) and re-evaluate the outcome of their therapy.
- 3- Perform at least one periodontal surgery (e.g., open flap debridement and crown lengthening surgery)

Experts from outside the University might be hosted to give components of this course.





**Advanced Oral and Maxillofacial Diseases**

1 Credit Hour

Pre-request (none)

This course provides students with comprehensive and multidisciplinary knowledge about diseases and conditions affecting the oral and maxillofacial region. The course emphasizes the importance of multidisciplinary management of various medical and surgical conditions affecting the head and neck area. The course is supplemented by practical component where students are given the chance to meet patients with various oral and maxillofacial diseases and discuss diagnosis and management in small group discussions. Experts from outside the University might be hosted to give components of this course.

**Oral and Maxillofacial Surgery 2**

3 Credit Hour

Pre-request (none)

This course familiarizes the student with the treatment and management of pyogenic infection of soft tissues and inflammatory diseases of the bone. It also discusses the surgical procedures used in managing lesions of the oral cavity including soft tissue swellings, lesions of the jaws, odontogenic tumors, cysts of the jaws, tumors of the oral cavity, and the salivary glands disorders. The course emphasizes the interaction of oral surgery with other dental and medical specialties, with special attention paid to TMJ dysfunction, Implantology and injuries of the head and neck.

In addition to training and acquiring skills needed for exodontia, this course offers the student the opportunity to assist and observe minor surgical procedures carried out under local anesthesia or intravenous sedation and major surgical procedures carried out under general anesthesia. Experts from outside the University might be hosted to give components of this course.

**Orthodontics 2**

1 Credit Hour

Pre-request (none)

This course introduces the student to the principles of treatment of different types of malocclusion. Diagnoses, materials and techniques used are discussed. Also, treatment of special cases is presented. It gives the student the opportunity to acquire the necessary skills for examination, assessment,



diagnosis and development of treatment plan, treatment and recalls for follow-up of the case. Experts from outside the University might be hosted to give components of this course.

### Pediatric Dentistry 2

3 Credit Hour

Pre-request (none)

This course familiarizes the student with the special forms of caries occurring during childhood and adolescence. Operative procedures and modern concepts of dentistry for the child and adolescent are explored. Considerable emphasis is given throughout the course to prevention of dental caries and management of space problems. Also, the course discusses problems related to the eruption of teeth and oral manifestations of certain systemic diseases and syndromes. The course provides the student with the opportunity to acquire the skills and knowledge necessary for the diagnoses and proper treatment of pulpally involved primary and young permanent teeth. Considerable emphasis is given to treatment of injuries and several new treatment recommendations are included. The clinical component focuses on skills that student should develop by covering examination, diagnoses, treatment planning, restoration of teeth, trauma, prevention of oral diseases, emergency care, pulp therapy, and other tooth related therapy. Experts from outside the University might be hosted to give components of this course.

### Special Care Dentistry

1 Credit Hour

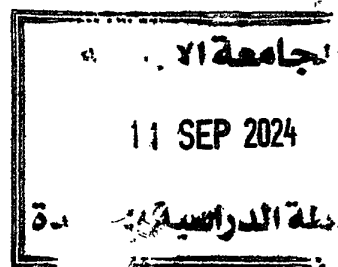
Pre-request (none)

This course allows students to understand basic concepts in special care dentistry including access to oral health, equality, equity, consent and legal aspects of providing dental care to patients with disability. In addition, this course provides students with an overview about the scope and practice of special care dentistry. Specific diseases including cerebral palsy, autism, dementia, aging and their impact on oral health are also discussed in this course. Experts from outside the University might be hosted to give components of this course.

### Practice Management and Marketing

1 Credit Hour

Pre-request (none)





This course aims to provide students with the understanding of the principles of practice management related to dentistry. It covers different aspects of practice management to help the student develop the needed skills for effective practice management, including the importance of continuous professional development. Experts from outside the University might be hosted to give components of this course.

### Research and Evidence Based Dentistry

1 Credit Hours

Pre-request (none)

This course will allow dental students during their 4<sup>th</sup> and 5<sup>th</sup> years to establish and later advance an understanding of dental research. The course introduces the language of research, ethical principles and challenges and the elements of the research process within quantitative and qualitative methods approaches. Participants will use the theoretical underpinnings to begin developing research project and critically review literature relevant to these projects. Students should also be able to determine how research findings are used in forming their understanding for their dental practice; students should learn the fundamentals of evidence-based dentistry and apply these fundamentals in their future continuous education throughout their careers. This course is divided to integrated didactic and practical parts.

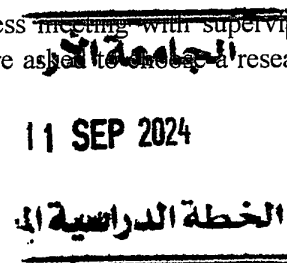
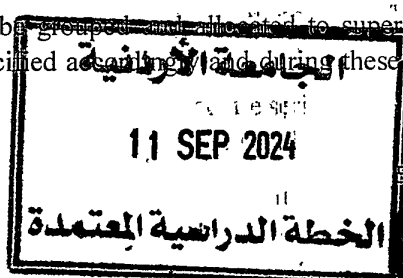
The didactic section is made of lecture series spread over the first semester that aim to train the students in building up their research projects and critical appraisal training.

The didactic part aims to introduce students to the principles of research its applications and the processes of research projects, explain the relationship between theory and research. It also help train students with skills to enable them to perform the practical part of this course. After finishing this course, students should be able to understand research terminology, be aware of the ethical principles of research, ethical challenges and approval processes.

The practical part is divided to student-led critical appraisal seminars and student-led research projects. Students should be familiar with literature reading and writing techniques. This aims to help students assess and critique a published journal article that uses the several research methods in the field and be able to construct an effective research design/ questionnaire that employs several types of survey questions and use it to collect data.

For the student-led seminars, students will choose a research paper and critically appraise it in a presentation to their colleagues and supervisor regularly. Techniques of self-evaluation, peer-evaluation and supervisor evaluation will be combined.

Students will be grouped and allocated to supervisors, regular progress meeting with supervisors should be specified accordingly and during these meetings, students are asked to develop a research





topic, create a study design after writing literature review and proposal then start data collection. After these phases are finished, students move to data analysis and write up their research projects.

Experts from outside the University might be hosted to give components of this course.

### **Modern Concepts in Restorative Dentistry**

1 Credit Hour

Pre-request (none)

This course aims at providing students with the knowledge and expertise in advanced clinical cases requiring operative treatment such as, all ceramic crowns, bleaching and laminate veneers. In addition to enriching their knowledge in new manufacturing methods and materials such as CAD/CAM technology. Experts from outside the University might be hosted to give components of this course.

### **Elective course 1**

1 Credit Hour

Pre-request (none)

Students are allowed to select a course from a group of elective courses offered by the School of Dentistry based on student's interest. The list of elective courses is determined at the beginning of the academic year by the curriculum committee. Experts from outside the University might be hosted to give components of this course.

### **Elective course 2**

1 Credit Hour

Pre-request (none)

Students are allowed to select a course from a group of elective courses offered by the School of Dentistry based on student's interest. The list of elective courses is determined at the beginning of the academic year by the curriculum committee. Experts from outside the University might be hosted to give components of this course.