

Curriculum for Associate Degree in Dental Laboratories Specialization

The curriculum for associate degree in Dental Laboratories consists of (72 credit hours) as follows:

Serial No.	Requirements	Credit Hours
First	University Requirements	12
Second	Program Requirements	18
Third	Specialization Requirements	42
Total		72



The curriculum for associate degree in Dental Laboratories

First: University requirements (12 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
22001101	Arabic Language	3	3	-	
22002101	English Language	3	3	-	
21901100	Islamic Culture	3	3	-	
21702101	Computer Skills	3	1	4	
Total		12	10	4	

Second: Program requirements (18 credit hours) as follow:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21301123	Medical Physics	3	3	-	
21301131	Biochemistry	2	2	-	
21301132	Biochemistry/ Practical	1	-	3	21301131*
21102111	Anatomy	3	3	-	
21102113	Physiology	3	3	-	21102111*
21102115	Medical Sociology	3	3	-	
21102117	Medical Terminology	3	3	-	
Total		18	17	3	

* Co-requisite



Third: Specialization Requirements (42 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21112111	Oral pathology	2	2	0	
21112121	Oral anatomy	3	3	-	
21112122	Oral anatomy/ practical	2	-	6	
21112131	Dental materials and appliances	3	3	-	
21112132	Dental materials and appliances/ practical	2	-	4	
21112241	Partial prostheses	3	3	-	21112261
21112242	Partial prostheses/ practical	2	-	6	
21112151	Fixed prosthodontics	3	3	-	21112121
21112152	Fixed prosthodontics/ Practical	2	-	6	
21112261	Complete denture prosthetics	3	3	-	21112121
21112262	Complete denture prosthetics/ practical	2	-	6	
21112271	Occlusal and surgical appliances	2	1	2	21112261*
21112273	Orthodontic appliances	3	3	-	21112121
21112274	Orthodontic appliances/ practical	2	-	6	
21112281	Dental ceramics	2	1	3	21112251
21113101	First aids	3	2	3	
21112200	Field training**	3	-	-	
Total		42	24	42	

* Co-requisite

** Field training equivalent to 280 training hours.



Guiding Plan

First Year					
First Semester			Second semester		
Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
21112111	Oral anatomy	3	21112151	Fixed prosthodontics	3
21102111	Anatomy	3	21112152	Fixed Prosthodontics /Practical	2
21102113	Physiology	3	21112131	Dental Materials and appliances	3
21102117	Medical terminology	3	21112132	Dental Materials and appliances/ practical	2
22002101	English language	3	21112122	Oral anatomy/ practical	2
22001101	Arabic language	3	21301131	Biochemistry	2
21102111	Anatomy	3	21301132	Biochemistry/ practical	1
			21901100	Islamic culture	3
Total		18	Total		18

Second Year					
third Semester			Fourth semester		
Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
21112261	Complete denture prosthetics	3	21112241	Partial protheses	3
21112262	Complete denture prosthetics/ practical	2	21112242	Partial protheses/ practical	2
21112271	Occlusal and surgical appliances	2	21112273	Orthodontic appliances	3
21112111	Oral pathology	2	21112274	Orthodontic appliances/ practical	2
21301123	Medical physics	3	21112281	Dental ceramics	2
21102117	Medical sociology	3	21113101	First aids	3
21702101	Computer skills	3	21112200	Field training	3
Total		18	Total		18

❖ تطبق هذه الخطة الدراسية اعتباراً من بداية العام الجامعي 2009/2008

Brief course Description

Course Title	Course No	Credit Hours (Theoretical /Practical)
Arabic language	22001101	3(3.0)
<p>تتضمن هذه المادة مجموعة من المهارات اللغوية بمستوياتها وأنظمتها المختلفة: الصوتية، والصرفية، والنحوية، والبلاغية، والمعجمية، والتعبيرية، وتشتمل نماذج من النصوص المشرقة: قرآنية، وشعرية، وقصصية، من بينها نماذج من الأدب الأردني؛ يتوخى من قراءتها وتدوقها وتحليلها تحليلاً أدبياً؛ تنمية الذوق الجمالي لدى الطلاب الدارسين.</p>		
English language	22002101	3(3.0)
<p>English 1 is a general course. It covers the syllabuses of listening, speaking, reading, writing, pronunciation and grammar, which are provided in a communicative context. The course is designed for foreign learners of the English language, who have had more than one year of English language study. The extension part would be dealt with in the class situation following the individual differences.</p>		
Islamic culture	21901100	3(3.0)
<ol style="list-style-type: none"> 1. تعريف الثقافة الإسلامية وبيان معانيها وموضوعاتها والنظم المتعلقة بها - وظائفها وأهدافها 2. مصادر ومقومات الثقافة الإسلامية والأركان والأسس التي تقوم عليها . 3. خصائص الثقافة الإسلامية . 4. الإسلام والعلم ، والعلاقة بين العلم والإيمان 5. التحديات التي تواجه الثقافة الإسلامية . 6. رد الشبهات التي تثار حول الإسلام . 7. الأخلاق الإسلامية والآداب الشرعية في إطار الثقافة الإسلامية 8. النظم الإسلامية . 		
Computer skills	21702101	3(1,4)
<p>An introduction to computing and the broad field of information technology is given. Topics covered include the basic structure of digital computer system, microcomputer, operating systems, application software, data communication and networks, and the internet. Hands-on learning emphasizes Windows xp , MS-office2000, and the internet.</p>		

Medical physics	21301123	3(3,0)
<p>This course is designed to acquaint the students with knowledge about forces and units of forces, energy changes in the body, heat loss from the body, and breathing mechanism. It helps the students acquire knowledge about electric signals of the body, general properties of sound in the body as a drum (percussion in medicine) and vision defects and corrections. Moreover, it makes the students recognize sources of radioactivity, nuclear medicine imaging devices, and the dose in nuclear medicine and therapy with radioactivity.</p>		
Biochemistry	21301131	2(2,0)
<p>Biochemistry course introduces the basic essential information to the college students to know the biomaterials, which we deal with during over daily activities, classification, chemical structure, reactions and how the human body metabolizes such biomolecules work.</p>		
Biochemistry/ practical	21301132	1(0,3)
<p>This course deals with performing practical applications for the different classes of biomolecules including carbohydrates, lipids and proteins.</p>		
Anatomy	21102111	3(3.0)
<p>The course deals with structural anatomy of the body as a whole to provide the students with knowledge of the structure of the body of the human being. This course deals all the systems of the body in an attempt to make it easy for the paramedical students to recognize the organs of the body.</p>		
Physiology	21102113	3(3.0)
<p>This course is designed to provide the students with the knowledge of the functions performed by the various parts and organs of the human body. It also deals with the integrity of the body systems as a whole to let the student recognize the physiological changes that happen within the human body and how the body systems work.</p>		
Medical sociology	21102115	3(3.0)
<p>يتناول هذا المساق المضمون المعرفي لعلم الاجتماع من حيث الفكر الاجتماعي والرعاية الصحية. فيقدم عرضاً لمفاهيم: الصحة، المرض، الرعاية الصحية، الخدمة الصحية والسلوك المرضي، وكذلك يتناول الدور الذي يمارسه المجتمع في الخدمة الصحية والسياق الاجتماعي للصحة والمرض وانعكاسات مفهوم الصحة والمرض على الخدمات الصحية. ثم يتناول المساق أهم الميادين الدراسية في العلوم الاجتماعية والسلوكية وذلك لفهم السلوك الاجتماعي على المستوى النظري والعملية من التطرق إلى مفاهيم: المعايير، الاتجاهات و القيم.</p>		

Medical terminology	21102117	3(3.0)
<p>This course is designed to develop a working knowledge of the language of medicine to let students acquire word building skills by learning word roots , suffixes, prefixes and abbreviations. By relating terms to body systems, students should identify the proper use of words in a medical environment. Knowledge of medical terminology enhances the students' ability to communicate and practice his/her work successfully on the purpose of providing health services.</p>		
Oral pathology	2112111	2(2.0)
<p>This course introduces the students to the pathologic basis of systemic and oral disease. Putting emphasis on the definition, epidemiology, distribution, morphology, symptoms, etiology, treatment, and prognosis of each disease.</p>		
Oral anatomy	2112121	3(3.0)
<p>This course integrates gross anatomy and regional; hence, its purpose is to Provide the student with the gross anatomical structures of the human oral cavity in an effort to provide the him with ideas of anatomical relations essential for functional application. The construction of the course is built in away to be taught though lectures, laboratory dissections, clinical correlations, radiographic anatomy, computerized tutorials and movies, as well as anatomical models.</p>		
Oral anatomy/ practical	2112122	2(0.6)
<p>This course involves a detailed study of the anatomy of the teeth, individually and collectively. Information about the anatomical and embryonic differences between individual teeth, developmental disturbances involving the teeth, root structure anomalies, the physiology of mandibular movement, and an introduction to occlusion are integral parts of the course.</p>		
Dental materials and appliances	2112131	3(3.0)
<p>This course is designed to provide the student with an applied and manageable knowledge of the fundamentals nature and behavior of dental materials. Moreover, the course includes the composition, properties, application, and manipulation of metal ceramic and polymeric dental materials.</p>		
Dental materials and appliances/ practical	2112132	2(0.4)
<p>This course deals with material fundamentals, based upon metallurgy, ceramics, polymer science and surface interactions are presented as background for specific product discussions. Emphasis is put upon laboratory processes, such as precious and non-precious metal fabrication, porcelain manipulation, denture base polymer curing, and the proper handling of gypsum products.</p>		
Partial prostheses	2112241	3(3.0)
<p>This course is designed to provide the student with a basic technique of for rehabilitating the partially edentulous patient. This technique will introduce the students to. knowledge and skills, built on the concepts and principles of partial denture construction which will develop the necessary skills in the laboratory to prepare the student to deal with edentulous patient in the clinic.</p>		
Partial prostheses/ practical	2112242	2(0.6)
<p>This course is designed to provide the students with a basic technique for rehabilitating the partially edentulous patient. It introduces the students to the the practical background of partial denture construction. The skills</p>		

gained will help him Manage using and dealing with chrome-cobalt materials. Moreover, the course deals with techniques to help the students in gaining skill, about the prosthesis to be used in dental lab.

Fixed prosthodontics	21112151	3(3.0)
This course is designed to acknowledge the students With the fundamentals of tooth preparation for extra coronal single-crown restorations and fixed partial denture abutments. Also, it is putting emphasis on the principles of fixed appliance design and fabrication are covered. In addition, it. concentrates on the treatment and restorations as they are related to the periodontium		
Fixed prosthodontics/ practical	21112152	2(0.6)
This course is arranged in away to make it easy for the student to gain clinical and laboratory experiences in the discipline of fixed prosthodontics. The students will gain knowledge and skills in the preclinical situations during the course study through their practice in the lab .		
Complete denture prosthetics	21112261	3(3.0)
This course is designed to provide the students with the knowledge of basic technique for rehabilitating the completely edentulous patient. This technique will be dealt with through out the course to help the students building their skills and concepts of complete denture construction helping them in developing the necessary skills in the lab .		
Complete denture prosthetics/ practical	21112262	2(0.6)
This course is designed to provide the student with practical skills needed for rehabilitating the completely edentulous patient. This knowledge and skills will be gained through the practical work in the dental labs and clinics based on the theoretical part.		
Occlusal and surgical appliances	21112271	2(1.2)
This course is designed to provide the student a comprehensive study of theatrical and practical elements in occlusal rehabilitation and surgical appliances. Taking into consideration that the primary concern of the dental technologist is the restoration of the occlusal surfaces of teeth of opposing arches together in such a manner that they still function to preserve the health of the masticatory system. The course will deal with the dynamics of mandibular movement and its effect on tooth form, Principles of and instrumentation will be presented to enable the student to simulate mandibular movements on an articulator. Occlusal restorations will be fabricated in wax on a semiadjustable articulator, according to functional criteria		
Dental ceramics	21112281	2 (1-3)
This course is designed to provide the students with a comprehensive study in the theoretical and practical part of Dental Ceramics types, composition and technique, beside a full knowledge in its advantages & disadvantages. Also its expected from the students to be aware of all steps in Porcelain fabrication		

Orthodontic appliances	21112273	3(3.0)
<p>This course is designed to provide students with knowledge of how to construct basic orthodontic appliances. Orthodontic appliances are fabricated with heavy emphasis on wire bending. The course should make it easy for the student to understand the orthodontic classification system, orthodontic terminology, work authorizations, and purposes of the appliances. Finally, the course exposes the student to fixed, banded, edged wise cases and surgical orthodontic cases.</p>		
Orthodontic appliances/ practical	21112274	2(0.6)
<p>This course is designed to make it easy for the students to construct basic orthodontic appliances. Orthodontic appliances are fabricated with heavy emphasis on wire bending. The course is prepared to make it easy for the students to gain skills to be used in febricity appliance. Finally, the course exposes the student to fixed, banded, edged wise cases and surgical orthodontic cases.</p>		
First aids	21113101	3 (2-3)
<p>This course is designed to introduce the student into emergency medical care providing him with the knowledge and skills that make him able to do patient assessment and choose first Aid priorities and the more suitable instruments which allow him to manage Airway Obstruction, shock and bleeding, soft-Tissue injuries (wounds), soft tissue Injuries (Burns) trauma and fractures, medical emergency (Allergies Reaction) and medical emergency (Poisoning) and, environmental emergency, and altered mental status, It also introduces him to the skills needed for doing CPR.</p>		
Field training	21112200	3 (280 training hours)
<p>This training course is designed to provide the student with practical skills in all phases of dental laboratory procedures. More specifically, the course is arranged in away that the student will gain field training in all areas of basic laboratory work, including fixed prosthodontics, complete dentures, as well as advanced laboratory work (Maxillofacial prosthesis, ceramics), It reinforces and extend their previous learning in all steps of all dental courses.</p>		

