

1.	School	Dentistry
2.	Department	Pediatric Dentistry, Orthodontics and Prevention
3.	Program title (Arabic)	ماجستير في تقويم الاسنان السريري
4.	Program title (English)	Masters in Clinical Orthodontics
5.	Track	Comprehensive

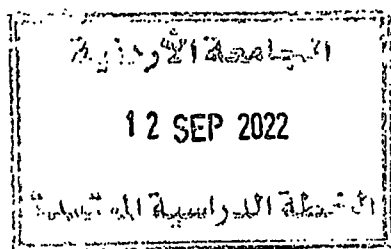
	Specialization #	Degree	Dep #	Faculty #	Year	Track
Plan Number	31	8	3	13	2022	Non Thesis

First: General Rules and Conditions:

1. This plan conforms to the regulations of the general framework of the programs of graduate studies at the University of Jordan.
2. Areas of specialty for admission to this program:
Bachelor of Dental Surgery (BDS) and Doctor of Dental Science (DDS)

Second: Special Conditions

1. Applicants should have at least 2year post-qualification experience in general dentistry that might include an Internship Training Program.
2. Applicants must provide evidence of having passed the FULL MFDS Examination administered by one on the Royal Colleges in the United Kingdom and Ireland or an equivalent examination (NBDE).
3. Applicants should have obtained a license to practice Dentistry in Jordan granted by the Ministry of Health (permanent license or training license for Non -Jordanians).



Third: Study Plan: Studying (42) Credit Hours as following:

1. Obligatory Courses (33) Credit Hours:

Course no.	Course title	Pre-requisite	hours/ per week		Credit hours			Total
			Theory	Clinical	1 st	2 nd	summer	
1302707	Research methods and evidence-based practice		3	-	-	3	-	3
0703725	Statistical Methods for Health Care Research		3	-	3	-	-	3
1303750	Orthodontics I Theory ■		1.5	-	1.5	1.5	-	3
1303751	*Orthodontics I Clinical ■		-	15	2.5	2.5	-	5
1303753	Orthodontics II Theory ■	Orthodontics I Theory	1	-	1	1	-	2
1303752	*Orthodontics II Clinical ■	Orthodontics I Clinical	-	15	2.5	2.5	-	5
1303755	*Orthodontics III Theory	Orthodontics II Theory	1	-	1	-	-	1
1303754	*Orthodontics III Clinical ■	Orthodontics II Clinical	-	15	2.5	2.5	-	5
1303763	Orthodontics and Pediatric Dentistry Interface		1	-	1	-	-	1
1302708	Occlusion and Treatment of TMJ Disorders		1	-	1	-	-	1
1303777	Radiology and Cephalometrics		1	-	-	2	-	1
0534722	Medical Genetics		3	-	-	3	-	3
1303756	Clinical training at JUH I		0	15	-	-	0	0
1303757	Clinical training at JUH II	Clinical training at JUH I	0	15	-	-	0	0
Total								33

■ Extended courses first and second semesters.

*Note 1: One credit hour = minimum of 3 practical hours

Note 2: The minimum practical training is 15 hours / week

Note 3: Passing the pre-requisite clinical courses is mandatory

12 SEP 2022

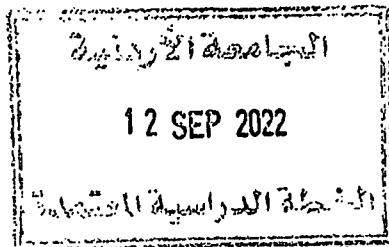
2. Elective Courses: Studying (9) Credit hours from the following:

Study Plan- Masters

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Course No.	Title	Credit hrs	Theory
1303762	Orthodontic and Restorative/Periodontal interface	1	1
1302717	Biomaterials	2	2
1304718	Dental Implantology	2	2
1304725	Restorative and Periodontology Intervention	2	2
0533704	Clinical pharmacology	3	3
1303774	Preventive Dentistry	1	1
1302724	Esthetics Dentistry	2	2
1303775	Craniofacial Growth and development	1	1
1303772	Interceptive Orthodontics	1	1
1303783	Dental Management of children with disabilities and the medically compromised patient.	2	2
Total		17	17

3. Comprehensive Exam (1303798)



**Details of Study Plan
Comprehensive Exam Track**

Year 1

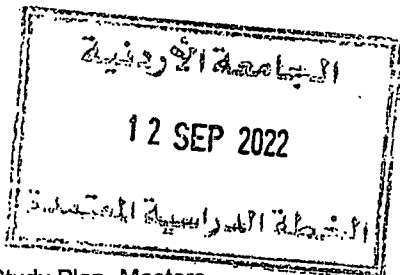
First Semester		Second Semester	
Course	Credits	Title	Credits
Orthodontics theory I*	1.5	Orthodontics theory I*	1.5
Orthodontics clinical I*	2.5	Orthodontics clinical I*	2.5
Statistical Methods for Health Care Research	3	Research methods and evidence-based practice	3
Total	7	Total	7
Summer Semester			
Course		Credits	
Clinical training at JUH I		0	
Total		0	

Year 2

First Semester		Second Semester	
Course	Credits	Title	Credits
Orthodontics theory II	1	Orthodontics theory II	1
Orthodontics clinical II	2.5	Orthodontics clinical II	2.5
Occlusion and Treatment of TMJ Disorders	1	Medical Genetics	3
Orthodontics and Pediatric Dentistry Interface	1	Radiology and Cephalometrics	1
Elective	2	Elective	2
Total	7.5	Total	9.5
Summer Semester			
Course		Credits	
Clinical training at JUH II		0	
Total		0	

Year 3

First Semester		Second Semester	
Course	Credits	Title	Credits
Orthodontics theory III	1	Orthodontics clinical III	2.5
Orthodontics clinical III	2.5	Craniofacial Growth and development (elective)	1
Elective	2	Elective	2
Total	5.5	Total	5.5



Course Description

1303750	Orthodontics I Theory	3 credit hours
Pre-request: None		
Introduction to the etiology of orthodontic malocclusion, the principles of orthodontic diagnosis and treatment planning, and the basics of orthodontic treatment mechanics using fixed and functional orthodontic appliances		

1303751	Orthodontics I Clinical	5 credit hours
Pre-request: None		
Laboratory training to acquire wire bending skills needed for apply various orthodontic biomechanics techniques. Straight-wire typodont course to prepare trainees for treatment of orthodontic patients. Training in fundamental clinical skills for treatment of the orthodontic patients, with an emphasis on diagnosis and treatment planning including training on use of computer software for cephalometric tracing and analysis and interpretation of cephalometric data. Diagnose and treatment plan orthodontic patients and commence taking records. Provide treatment of patients with a wide range of malocclusion with an emphasis on the initial stages of treatment placing special emphasis on fitting fixed appliance, aligning and leveling and anchorage control. In addition, students are trained to follow up orthodontic patients monthly.		

1303753	Orthodontics II Theory	2 credit hours
Pre-request: Orthodontics I Theory		
Advanced orthodontics biomechanics and materials, orthodontic fixed appliance philosophies and systems, orthodontic temporary anchorage devices, clear aligners and factors affecting stability and relapse of orthodontic treatment.		

1303752	Orthodontics II Clinical	5 credit hours
Pre-request: Orthodontics I Clinical		
Clinical training to acquire the skills needed to fit and adjust various fixed orthodontic appliances including clear aligners. In addition, graduate students will be trained in using Temporary anchorage devices TAD's. Provide the students with the clinical skills to follow up the orthodontic cases in the middle stages of the treatment with emphasis will be places on different methods of overbite and overjet reduction including inter and intra-arch mechanics. Graduate students are required to acquire skills of achieving a Class I canine relationship, a normal overjet and overbite and correction of any centerline discrepancies.		

1303755	Orthodontics III Theory	1 credit hours
Pre-request: Orthodontics II Theory		
An introduction to interdisciplinary treatment including: Orthodontic -Pediatric Dentistry, Orthodontic- Surgical and Orthognathic, Orthodontic- Restorative and Orthodontic - Periodontal interfaces:		

12 SEP 2022

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1303754	Orthodontics III Clinical	5 credit hours
Pre-request: Orthodontics II Clinical		
<p>Provide the students with the clinical skills to follow up the orthodontic cases in the final stages of the treatment with acquiring the skills of detailing and finishing to normal occlusal aims and objectives.</p> <p>This course will provide the students with principles of treatment of cases that requires orthognathic surgical correction. The students will be exposed to different stages of the treatment planning diagnosis and orthodontic preparation</p> <p>Provide students with principles of treatment of complex cases with orofacial deformities which require a multi-disciplinary team approach. Students will be exposed to different stages of the treatment planning diagnosis and orthodontic preparation for these cases.</p>		

0703725	Statistical Methods for Health Care Research	3 credit hours
Pre-request: none		
<p>The emphasis of this course is on the nature and characteristics of the most commonly used statistical techniques (descriptive statistics, correlation and linear regression, factor analysis, and elementary hypothesis testing), and their applicability to specific health care problems within the context of dentistry. Students will develop skills and knowledge in the use of computing software and to reinforce learning through assignments, including the analysis of data and interpret computer output.</p>		

1302707	Research Methods and evidence-based practice	3 credit hours
Pre-request: none		
<p>This course introduces students to research techniques and methodologies that can be applied throughout their practice settings. The course includes qualitative and quantitative research methods of finding evidence-based practice to help students make informed decisions in their clinical practice. The course describes the essentials of research ethics and the basics of good clinical practice. Analogous to these subjects the course illustrates the basis of academic writing essential to reading and writing scientific papers and elucidates fundamentals for dissertation thesis structure. The course trains postgraduate students to perform database mining, data collection and analysis using appropriate statistics. It will also include a systematic review training and an introduction to SPSS.</p>		

1302717	Biomaterials	2 credit hours
Pre-request: none		
<p>This course aims to improve knowledge in new materials used in clinical dentistry, their manipulation and uses in fixed and removable appliances prosthodontics maxillofacial prostheses and dental implants. In addition, laboratory studies on physical and chemical properties for these materials and their biocompatibility and effects on biological systems will be provided.</p>		

1304718	Dental Implantology	2 credit hours
Pre-request: none		
<p>This course consists of theoretical and practical part. The theoretical part will consist of advanced and successful options in treating patients by dental implants supported partial fixed prostheses and implant-retained complete prostheses, in addition to patients with single missing tooth providing that there are no anatomical or psychological contra-indications. It also discusses all the basic principles of surgical and prosthetic aspects of implants, and complications.</p>		

1302708	Occlusion and Treatment of TMJ Disorders	1 credit hour
Pre-request: none		
This course describes the normal occlusion for permanent dentition, congenital anomalies, and evaluation of normal occlusion. In addition to theories of reconstruction of occlusion, types of articulators, reconstruction of occlusion using provisional restoration clinically as a temporary solution till the final reconstruction is made by permanent fixed prostheses. It also deals with problems of malocclusion and their relation with TMJ, especially with mobile teeth, fillings, crowns, periodontal problems.		

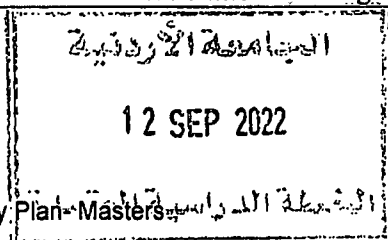
1303762	Orthodontic and Restorative / Periodontal interface	1 credit hours
Pre-request: none		
This course provides an understanding of the etiology and development of periodontal diseases, diagnosis, methods of treatment, and the periodontal considerations in Orthodontics, biological concepts and role of the periodontal tissues in the maintaining the stability of the occlusion. In addition to exposing the students to the adjuvant periodontal procedures to stabilize the corrected orthodontic tooth movements.		

1303763	Orthodontics and Pediatric Dentistry interface	1 credit hour
Pre-request: none		
This provides a foundation for the student to understand the treatment needs of children who require multidisciplinary management. It also discusses the team approach to the management of the developing dentition and occlusion and applying the principles of prevention and interceptive treatment procedures.		

1303777	Radiology and Cephalometrics	1 credit hour
Pre-request:		
This course provides a thorough understanding of cranio-facial radiographic techniques with emphasis on cephalometric roentgenography. This course is designed to acquaint the student with the use of X rays, radiation hygiene, pathology and cephalometric techniques to assure proficiency in technical skills and in interpretation as needed for diagnostic procedures. This course includes both lecture and laboratory instruction.		

1303756	Clinical training at JUH 1	0 credit hours
Pre-request: None		
The course includes clinical training sessions at the JUH		

1303757	Clinical training at JUH II	0 credit hours
Pre-request: Clinical training at JUH I		
The course includes clinical training sessions at the JUH		



1303772	Interceptive orthodontics	1 credit hour
Pre-request: none		
Emphasis is placed on cephalometrics, diagnosis and treatment planning, and the evaluation of the normal and abnormal conditions in the primary, early mixed, and late mixed dentitions. The course also aims to provide the postgraduate with the knowledge to identify and appropriately manage or refer a patient for orthodontic assessment. Cases are discussed to familiarize the student with clinical aspects and techniques of interception. The student will be required to attend the orthodontic clinics.		

1303775	Craniofacial Growth and Development	1 credit hour
Pre-request: none		
This course offers a clinically relevant understanding of craniofacial growth and development and aims to train graduate student to deal with patients who present with various skeletal and dental anomalies. The course's purpose is also to cover the literature on various syndromes and developmental anomalies that affect the face.		

1303783	Dental Management of children with disabilities and the medically compromised Patient	2 credit hours
Pre-request: none		
The course entails discussions pertaining to genetics, physically and mentally disabled patient and/or associated craniofacial syndromes. During this course the student will also gain knowledge of dental aspects of systemic diseases in terms of their effect on dental treatment and their effect on the oral hard and soft tissues. They will learn the effects of drugs used in the treatment of systemic diseases on the oral health of the patient and the how they complicate dental treatment. Students treat medically compromised patients and those with disabilities. Comprehensive treatment is rendered with a variety of management techniques, including conscious sedation and general anesthesia		

1304725	Restorative and Periodontology Intervention	2 credit hours
Pre-request: none		
This theory course provides an understanding of the etiology and development of periodontal diseases, diagnosis, methods of treatment, and the periodontal considerations in fixed and removable prosthodontics, biological concepts of crown lengthening, it also discusses theories of dentin hypersensitivity and its treatment, and the role of occlusion in periodontal diseases.		

0534722	Medical Genetics	3 credit hour
Pre-request: none		
This course covers the study of chromosomes and heredity, genetic linkage, chemistry of the gene, mitosis and meiosis, gamete formation, mechanisms of transfer of genetic traits, genetic code and its transcription and translation, protein synthesis, mutations, genetic map, sex determination, sex-linked characteristics, human genetic disorders and their diagnosis and management, and genetic engineering.		

0533704	Clinical Pharmacology	3 credit hour
Pre-request: none		
This course aims to describe the clinical application of drugs including patient treatment, studies of drug application and the steps of drug development. Recent advances in pharmacology particularly		

as related to the pediatric patient are discussed in this course.

1302724	Esthetics Dentistry	(2 credit hours
Pre-request: none		
This course provides basic esthetic considerations in operative dentistry ,focuses on color, discusses tooth colored direct and indirect restorations, adhesion theories ,and adhesive restorations ,treatment of discolored teeth or teeth with anomalies by simple or complex interventions.		

1303774	Preventive Dentistry	1 credit hour
Pre-request: none		
This course focuses on the etiology, prevalence and prevention of dental caries using fluoride and other methods and the new technologies used in the diagnosis and treatment of dental caries. An evidence-based approach is emphasized.		

