



## *In the Name of God*

Islamic Republic of Iran  
Ministry of Health and Medical Education  
Deputy Ministry for Education

## Orthodontics

Degree: Specialty equivalent to Master of Science

### Total Course Credits

- General basic sciences 5
- Specific basic sciences 5
- Related sciences 5
- Core courses 93

### Program Description

Orthodontics is one of the specialty courses in dentistry, which deals with the prevention, diagnosis and treatment of dental alveolar anomalies. Graduates passing the specialty and board exams held by the authorities of the Ministry of Health, Treatment and Medical Education will be certified as orthodontists.

### The General Aim

The aim of the educational curriculum is to train orthodontists who have achieved the standards of knowledge, beliefs and opinions and practical skills up to national and global standards. In addition, the graduates should be able to provide high-quality preventive and therapeutic services, provide educational services and have an active role in expanding the boundaries of knowledge and research within the framework of their specialty field.

## **Duration of the course**

The specialty course of oral and maxillofacial pathology lasts 3 years (6 semesters) and is a full-time course based on the guidelines of the Council for General and Specialty Dental Courses.

## **Admission Requirements**

- B.D.S./D.M.D./D.D.S or equivalent certificates for the applicants of Specialty
- Certificate of Internship or Certificate of Practice

## **Language Requirements:**

- Language requirements: Evidence of English Proficiency on the TOEFL or IELTS tests. The minimum score for TOEFL PBT, TOEFL iBT and IELTS is 533, 72 and 5.5 respectively.
- Applicants from Persian (Farsi) Speaking countries (They shall both speak and write in Persian) who have applied for graduate Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English language certificate which meets SUMS' minimal language proficiency requirements, within one year from commencing their studies at SUMS.

## **Expected Competencies at the End of the Program**

At the end of the program learners will be competent in the following skills:

- Diagnosis (Preparation of appropriate problem list for each patient)
- Treatment planning (appropriate selection of alternative plans according to patient's chief complaint, values, socio-economic status, motivation, and cooperation)
- Application of appropriate treatment mechanics according to the patient's needs
- Patient management
- Finishing the case according to the standards of American Board of Orthodontics

## Student Assessment (Methods and Types)

- Formative
- Summative
- Comprehensive exam

## Table of the Course

**Table 1. The general basic sciences courses in Orthodontics MSc**

Code of the Course	Title of the Course	Units and the course types			Total Units
		Workshop	Theoretical	Practical	
1	Research Methods (1)	2	-	-	2
2	Research Methods (2)	2	-	-	2
3	Scientific Writing	1	-	-	1
<b>Total</b>					<b>5</b>

**Table 2. The specific basic sciences courses in Orthodontics M.Sc.**

Code of the Course	Title of the Course	Units and the course types			Total Units
		Workshop	Theoretical	Practical	
4	Oral Physiology and Biology	-	1	-	1
5	Craniofacial Genetics	-	1	-	1
6	Clinical Photography	1	-	-	1
7	Treatment Management	-	2	-	2
<b>Total</b>		1	4		5

**Table 3. The related sciences courses in Orthodontics M.Sc.**

Code of the Course	Title of the Course	Units and the course types			Prerequisite
		Theoretical	Practical	Total Units	
8	Prosthodontics	1		1	
9	Periodontics	1		1	
10	Oral and Maxillofacial Surgery	1		1	
11	Oral and Maxillofacial Surgery		1	1	
12	Oral and Maxillofacial Radiology	1		1	
<b>Total</b>				5	

**Table 4. The core courses in Orthodontics M.Sc.**

Code of the Course	Title of the Course	Units and the course types			Prerequisite
		Theoretical	Practical	Total Units	
13	Literature Review (1)	1	-	1	
14	Literature Review (2)	1	-	1	<b>13</b>
15	Biomechanics	2	-	2	-
16	Biology of tooth movement and tissue reaction	1	-	1	<b>15</b>
17	Diagnosis (imaging)	2		2	
18	Principles of Diagnosis and Treatment Planning	2	-	2	
19	Preclinic (Removable Appliances)	-	1	1	
20	Preclinic (Fixed Appliances)	-	1	1	
21	Typodont	-	4	4	
22	Fixed Appliance	1	-	1	<b>20</b>
23	Fixed Appliance	2	-	2	<b>23</b>
24	Principles of Removable Appliances	2	-	2	
25	Treatment (1)	2	-	2	<b>17, 18</b>
26	Treatment (2)	2	-	2	<b>25</b>
27	Treatment (3)	1	-	1	<b>26</b>
28	Orthognathic Surgery	2	-	2	<b>26</b>
29	Development of Occlusion	1	-	1	
30	Growth and Development	1	-	1	

**Table 4. The core courses in Orthodontics MSc (Continued)**

Code of the Course	Title of the Course	Units and the course types			Prerequisite
		Theoretical	Practical	Total Units	
31	Retention and Relapse	1	-	1	<b>26</b>
32	Syndromes and Cleft lip and Palate	2	-	2	<b>29 , 30</b>
33	Biomaterials	1	-	1	<b>15</b>
34	Temporomandibular Joint disorders	1	-	1	<b>30</b>
35	Treatment Planning Case Presentation (1)	-	-	1	
36	Treatment Planning Case Presentation (2)	-	1	1	<b>35</b>
37	Evaluation of Treatment Outcomes Case presentation (1)	-	1	1	<b>36</b>
38	Evaluation of Treatment Outcomes Case presentation (2)	-	1	1	<b>37</b>
39	Clinical Treatment (1)		1	4	
40	Clinical Treatment (2)		4	5	<b>39</b>
41	Clinical Treatment (3)		5	8	<b>40</b>
42	Clinical Treatment (4)		8	7	<b>41</b>
43	Clinical Treatment (5)		7	8	<b>42</b>
44	Clinical Treatment (6)		11	11	<b>43</b>
45	Thesis (1)	2		2	
46	Thesis (2)	2		2	<b>45</b>
47	Thesis (3)	2		2	<b>46</b>
48	Thesis (4)	6		6	<b>47</b>

***Important Notice:***

The above features the curriculum of the Orthodontics Program designed and approved by the Iranian Ministry of Health and Medical Education. Given the fact that Shiraz University of Medical Sciences is constantly improving and updating itself to meet the international academic standards and the state of the art, and based on the availability of facilities, devices, ward, laboratories, etc. at SUMS, all the SUMS curricula are approximately 20% subject to change.