



# University of East

## MASTER OF SCIENCE IN DENTISTRY (*ENDODONTICS*)

Subject Code	Subject Title	Units	Hours per week		
			Lec.	Lab.	Cl.
<b>FIRST YEAR</b>					
<b><u>1<sup>st</sup> Semester</u></b>					
DENT 511	Advance Oral Biology	2	2		
DENT 514	Dento-Craniofacial Radiology	2	1	3	
ENDO 551	Pulp Morphology & Biology	2	2		
ENDO 561	Histophysiology of the Pulp and Periradicular Tissue	2	2		
ENDO 563	Anatomy of the Dental and Canal System	2	2		
ENDO 516	Clinical Practice & Conference (Internship)	1			3
<b>TOTAL</b>		<b>11</b>	<b>9</b>	<b>3</b>	<b>3</b>
<b><u>2<sup>nd</sup> Semester</u></b>					
DENT 531	Interdisciplinary Diagnosis and Treatment Plan	2	2		
DENT 591	Biostatistics	2	1	3	
DENT 592	Research Methods & Design	2	2		
DENT 515	Physiological Chemistry	2	2		
ENDO 572C	Clinical Endodontics 1	4			12
<b>TOTAL</b>		<b>12</b>	<b>7</b>	<b>3</b>	<b>12</b>
<b>SECOND YEAR</b>					
<b><u>1<sup>st</sup> Semester</u></b>					
DENT 512	Cell and Molecular Biology	2	2		
ENDO 562	Histopathology of the Pulp and Periradicular Tissues	2	2		
ENDO 571	Endodontology 1	1	1		
ENDO 581	Differential Diagnosis of Orofacial Pain	2	2		
ENDO 573C	Clinical Endodontics 2	5			15
<b>TOTAL</b>		<b>12</b>	<b>7</b>	<b>0</b>	<b>15</b>
<b><u>2<sup>nd</sup> Semester</u></b>					
DENT 521	Oral Immunology & Microbiology	2	2		
DENT 593	Research Analysis & Interpretation	3	2		3
ENDO 582	Endodontic Surgery	2	2		
ENDO 584	Clinical Endodontics 3	5			15
<b>TOTAL</b>		<b>12</b>	<b>6</b>	<b>0</b>	<b>18</b>
<b>COMPREHENSIVE EXAMINATION</b>					
<b>THIRD YEAR</b>					
<b><u>1<sup>st</sup> Semester</u></b>					
ENDO 552	Endodontics Seminar 1	1	1		
ENDO 581	Endodontic Emergencies	2	2		
ENDO 585	Clinical Endodontics 4	5		Res	15
DENT 597A	Endodontics Research 1	3		Lab	
<b>TOTAL</b>		<b>11</b>	<b>3</b>	<b>0</b>	<b>15</b>
<b><u>2<sup>nd</sup> Semester</u></b>					
ENDO 553	Endodontics Seminar 2	1	1		
ENDO 574	Endodontics Case Review	1	1		
ENDO 575	Endo-Perio Case review	1	1	Res	
DENT 597B	Orthodontic Research 2	3		Lab	
<b>TOTAL</b>		<b>6</b>	<b>3</b>	<b>0</b>	<b>0</b>



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## MASTER OF SCIENCE IN DENTISTRY

### Major in **Endodontics**

#### **OBJECTIVES:**

To provide qualified dentists with the scientific knowledge and clinical skills necessary to practice endodontics as a speciality and/or pursue a career in dental education and research.

#### **EXPECTED OUTCOMES:**

1. Graduate students are expected to have learned the scientific and clinical bases of endodontics.
2. Graduate students must have achieved a sound academic background on which to base clinical treatment, research and teaching and must be able to identify and apply the various modalities in the management of endodontic cases.
3. Graduate students must have gained the knowledge of and experience in the research process.
4. Graduate students must have developed clinical skills in the diagnosis, treatment planning and management of trans-disciplinary endodontic cases and surgical endodontics.
5. Graduate students must have gained knowledge and experience in the educational process of learning the different concepts of endodontic cases.
6. Graduate students must have developed skills in designing, conducting, reporting and publishing of the results of original research.

#### **ENDO 551 – Pulp Morphology and Biology**

An in-depth study of the dental pulp in health and in disease. Pulpal reactions to irritants are emphasized along with the associated diagnostic and therapeutic procedures. *Credit: 2 units*

#### **ENDO 552 – Endodontics Seminar 1**

Endodontics texts and/or published reports of special conference related to endodontics are reviewed and discussed; current journal articles of interest will also be discussed. *Credit: 1 unit*

#### **ENDO 553 – Endodontics Seminar 2**

A continuation of Endo 552. *Credit: 2 units*

#### **ENDO 561 – Anatomy and Histophysiology of the Pulp and Periradicular Tissues**

Provides an overview of the pulp tissue, periodontium and oral mucosa in health, with emphasis on histology, ultrastructure, functions and clinical considerations. *Credit: 2 units*

#### **ENDO 562 – Histophysiology of the Pulp and Periradicular Tissues**

Provides an overview of the pulp, periodontium and oral mucosa in disease, with emphasis on histology, ultrastructure, impaired functions and clinicopathologic considerations. *Credit: 2 units*



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### Major in **Endodontics**

#### **ENDO 563 – Anatomy of the Dental Canal System**

Involves the study of the normal morphology of the pulp chamber and root canal of different teeth and their variations. *Credit: 2 units*

#### **ENDO 571 – Endodontology**

Discusses specific areas of clinical pharmacology, internal medicine, and infectious diseases that may have a direct relationship to clinical treatment of the endodontic patient. *Credit: 1 unit*

#### **ENDO 572 – Clinical Endodontics I**

Deals with the clinical delivery of comprehensive endodontics therapy to patient with various types of pulpal/periapical conditions. *Credit: 3 units*

#### **ENDO 573 – Clinical Endodontics 2**

A continuation of ENDO 572. *Credit: 3 units*

#### **ENDO 574 – Endodontics Case Review**

A seminar that will review and evaluate the success/failure of all the patients treated. Treatment records will be analyzed during detailed discussions of diagnosis and treatment, providing a critical evaluation of the clinical result. *Credit: 2 units*

#### **ENDO 582 – Endodontics Surgery**

Principles of Endodontics are presented, with emphasis on indications, contraindications and techniques. *Credit: 3 units*

#### **ENDO 583 – Endodontics Emergencies**

Diagnosis and management of emergency endodontics cases will be discussed. Published articles will be analyzed and actual cases will be presented and evaluated. *Credit: 2 units*

#### **ENDO 584 – Endo-Perio Case Review**

A seminar that will review and evaluate the success/failure of all patients with endo-perio problems that have been treated. Involves analysis of the treatment records during detailed discussion of diagnosis and treatment. *Credit: 2 units*

