

## Graduate Program

Contributed by jennifer rabago  
Thursday, 06 July 2006  
Last Updated Friday, 14 June 2013

THE GRADUATE PROGRAM IN ORTHODONTICS The Graduate Program of the College of Dentistry of Dentistry was built during the term of Dr. Avelino Macasaet as dean in 1985. The three-story structure occupying a 320-sq. meter land area, with a total floor area of 925 sq. meters, is located on Padre Faura St., within the former NEDA Compound. It was designed to house the graduate courses and short training courses.

At present, the regular two-year graduate program in Orthodontics is being conducted in the building since 1989. The first floor houses the administrative office, the panoramic and cephalometric radiography room, and a lecture room. The second floor is occupied by the orthodontics clinics, the patients record section, the supply room, the clinical laboratory, a faculty lounge and a small conference room. The third floor is being used by the College of Allied Medical Professions, which generated funds to finish that area.

Faculty-in-Charge : Dr. Lotus Llavore, MS

ORTHODONTICS POST-GRADUATE OFFICE (632) 526-2296 TO 97

UP Manila Padre Faura St., Ermita Manila 1000

CONTACT BY EMAIL THE GRADUATE PROGRAM IN ORTHODONTICS The Graduate Program of the College of Dentistry offers a Master of Science in Dentistry (Orthodontics). MASTER OF SCIENCE IN DENTISTRY

(ORTHODONTICS) OBJECTIVES 1. To graduate dentists with sufficient knowledge in the art and science of orthodontics and with proficiency in the clinical and technical skills necessary to render professional and ethical orthodontic service to our people.

2. To produce dentists who are motivated to do research and teach Orthodontics. ADMISSION REQUIREMENTS 1.

Possession of a Doctor of Dental Medicine (DDM or DMD) degree or its equivalent from the University of the Philippines or from other recognized Dental schools 2. License to practice Dentistry in any of the institutions of the Philippines.

These qualifications shall be determined through: a. evaluation of undergraduate credentials

b. character reference

c. interview with the applicant or other appropriate means

d. practical exercises in wire bending GRADUATION REQUIREMENTS The degree of Master of Science in Dentistry (Orthodontics) shall be awarded upon the fulfillment of the following: 1. Completion of the required 54 units and 1200 hours Clinical Practice Conference, plus six (6) units of thesis.

2. A general weighted average of at least 2.0 for item 1.

3. Successful defense of the thesis before a panel of examiners. No student shall be recommended for graduation unless he has satisfied all academic and other requirements prescribed for graduation. All requirements for the degree shall be completed in not more than five years including leaves. \*\* FOR ADDITIONAL INFORMATION VISIT THE FOLLOWING LINKS:

- UP MANILA NATIONAL GRADUATE OFFICE FOR THE HEALTH SCIENCES

- or go directly to the

- NGOHS link to the Orthodontics Program.

### MASTER OF SCIENCE IN DENTISTRY (ORTHODONTICS)

Curriculum Course Name No. of Units Orthodontics 201 Anatomy of the Head and Neck 1 Unit Orthodontics 202 Organization and Management for Rehabilitation Science 1 Unit Orthodontics 211 Radiology and Cephalometry 1 Unit Orthodontics 212 Principles of Orthodontics I 1 Unit Orthodontics 213 Technical Procedures in Orthodontics 1 Unit Orthodontics 214 Growth and Development of Craniofacial Structures 2 Units Orthodontics 215 Orthodontic Tooth Movement 2 Units Orthodontics 216.1 Orthodontic Appliance Design 1 2 Units Orthodontics 216.2 Orthodontic Appliance Design 2 1 Unit Orthodontics 217 Physiology of the Stomatognathic Systems 2 Units Orthodontics 218 Basic Periodontics 2 Units Orthodontics 219 Psychology of the Child Dental Patient 1 Unit Orthodontics 220 Orthodontic Practice Management 1 Unit Orthodontics 221 Speech 2 Units Orthodontics 222 Clinical Periodontics 1 Unit Orthodontics 231 Principles of Orthodontic Diagnosis II 2 Units Orthodontics 232 Prognosis and Treatment Planning in Orthodontics 2 Units Orthodontics 233 Orthodontic Diagnosis 1 Unit Orthodontics 234 Orthodontics in the Juvenile and Adult Patient 2 Units Orthodontics 235 Orthodontic Diagnosis 2 Units Orthodontics 241 Cleft Lip and Palate Management 1 Unit Orthodontics 242 Surgical Orthodontics 1 Unit Orthodontics 243 Trends in Orthodontic Treatment 1 Unit Orthodontics 244 Orthodontic Seminars I 1 Unit Orthodontics 245 Orthodontic Seminars II 2 Units Orthodontics 261 Clinical Practice and Conference in Orthodontics 2 Units Orthodontics 262 Clinical Practice and Conference in Orthodontics 2 Units Orthodontics 263 Clinical Practice and Conference in Orthodontics 2 Units Orthodontics 264 Clinical Practice and Conference in Orthodontics 2 Units Orthodontics 265 Clinical Practice and Conference in Orthodontics 2 Units Orthodontics 266 Clinical Practice and Conference in Orthodontics 2 Units

Thesis: 6 units Total: 60 units Practical Training A. Pre-clinical exercise

During the first part of the program, an intensive course that introduces the students to orthodontic biomechanics, diagnosis and treatment planning, takes place.

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B. Clinical activities

Clinical instruction uses the attending faculty-resident model. Each patient is assigned to a specific resident who is responsible for the patient under the guidance of his instructor. Each resident performs during his two year training, active treatment on approximately 50 patients (20 original and 30 transfer cases). The main clinical therapy used is the Standard Edgewise Technique. Other methods that may also be applied in limited clinical cases include the Straight Wire Technique and various types of Functional Appliances. Research Each student is required to complete a research project in partial fulfillment of the requirements of the MSD in Orthodontics. Other Activities A number of lectures and courses are given every year from speakers all over the world. The guest speaker's program is organized in joint collaboration between the Department, the Association of the Philippine Orthodontics, other scientific organizations and may vary from year to year. The postgraduate students are also required to actively participate as lecturers during the annual Philippine Dental Association Meeting.

Curriculum Details: (Approved as of 1988) FIRST YEAR SUMMER UNITS

Ortho 212 (Prin of Ortho) 1

Ortho 213 (Clin Proc in Ortho) 1

Ortho 211 (Radiology & Cephalometry) 1

Ortho 261 (Clin Practice & Conf in Ortho) 2

TOTAL 5 FIRST SEMESTER UNITS SECOND SEMESTER UNITS

Orthodontics 201 2 Orthodontics 202 1

Orthodontics 214 2 Orthodontics 217 2

Orthodontics 215 2 Orthodontics 203 1

Orthodontics 231 2 Orthodontics 218 2

Orthodontics 216.1 2 Orthodontics 232 2

Orthodontics 262 2 Orthodontics 252 2

Orthodontics 251 2 Orthodontics 219 1

Orthodontics 263 2

Orthodontics 216.2 1 TOTAL 14 14 \*Biostatistics 201 may substitute \*Biostatistics 206 may substitute

for Ortho 251 for Ortho 252 SECOND YEAR SUMMER UNITS

Ortho 241 (Cleft Lip and Palate Management) 1

Ortho 233 (Orthodontic Diagnosis) 1

Ortho 242 (Surgical Orthodontics) 1

Ortho 243 (Trends in Ortho Treatment) 1

Ortho 264 (Clin Practice & Conf in Ortho) 2

TOTAL 6 FIRST SEMESTER UNITS SECOND SEMESTER UNITS

Orthodontics 221 2 Orthodontics 235 2

Orthodontics 234 2 Orthodontics 245 2

Orthodontics 244 1 Orthodontics 222 1

Orthodontics 220 1 Orthodontics 266 2

Orthodontics 265 2

Orthodontics 300 6

TOTAL 14 7

**ORTHODONTICS 212. PRINCIPLES OF ORTHODONTICS.** The nature, classification, development and analysis of occlusion. credit : 1 unit (16 hrs class)

**ORTHODONTICS 213. TECHNICAL PROCEDURES IN ORTHODONTICS.** Principles and techniques of impression making model trimming, wire bending exercises, soldering, band forming, placement of attachment and dental photography. Credit: 1 unit (32 hrs lab)

**ORTHODONTICS 214. GROWTH AND DEVELOPMENT OF CRANIO-FACIAL STRUCTURE.** Prenatal and postnatal growth and development of the cranio-facial structure with emphasis on the osteology and myology of the head. Interpretation of growth and development data. Credit: 2 units (32 hrs class); Pre-requisite: Orthodontics 212

**ORTHODONTICS 215. ORTHODONTICS TOOTH MOVEMENT.** Tissue response to orthodontics tooth movement. Physical and mechanical properties of orthodontics materials in relation to orthodontic tooth. Credit: 2 units (32 hrs class)

**ORTHODONTICS 216.1 . ORTHODONTICS AND APPLIANCE DESIGN I.** Principles and mechanics of appliance in tooth movement using typodont. Credit: 2 units (32 hrs lec)

**ORTHODONTICS 216.2 ORTHODONTIC AND APPLIANCE DESIGN II.** Concepts, theories and biomechanical principles with tooth movement using removable orthodontic appliances. Credit: 1 unit (16 hrs lec)

**ORTHODONTICS 217. PHYSIOLOGY OF THE STOMATOGNATHIC SYSTEM.** A comprehensive study of the kinesiology of occlusion and dysfunctional problems arising from occlusal disharmony. It includes the development of the stomagnathic system in relation to the function of mastication, deglutition and respiration. Credit: 2 units (32 hrs class)

**ORTHODONTICS 218. BASIC PERIODONTICS.** Histophysiology and treatment planning for corrective orthodontics. Credit: 2 units (32 hrs class)

**ORTHODONTICS 219. PSYCHOLOGY OF THE CHILD DENTAL PATIENT.** Principles of child psychology and its application to dentistry. Credit: 1 unit (16 hrs class)

**ORTHODONTICS 220. ORTHODONTICS PRACTICE MANAGEMENT.** Management of orthodontics practice with emphasis on office location, relationship with patients, parents and referring dentist. Credit: 1 unit (16 hrs class)

**ORTHODONTICS 221. SPEECH.** The physiology and pathology of speech production. Credit: 2 units (32 hrs class)

**ORTHODONTICS 222. CLINICAL PERIODONTICS.** Periodontal consideration of the Orthodontically treated patients. Credit: 1 unit (16 hrs class); Pre-

requisite: Orthodontics 218  
**ORTHODONTICS 231. PRINCIPLES OF ORTHODONTIC DIAGNOSIS.** Principles and procedures in making an orthodontic diagnosis. Credit: 2 units (32 hrs class); Pre-requisite: Orthodontics 212 and 211  
**ORTHODONTICS 232. PROGNOSIS AND TREATMENT PLANNING IN ORTHODONTICS.** Prognosis and treatment planning for corrective orthodontics. Credit: 2 units ( 32 hrs class)  
**ORTHODONTICS 233. ORTHODONTIC DIAGNOSIS.** Recognition of early manifestation of developing malocclusion. Prevention and interception of orthodontic problems in the primary and transitional dentition. Credit: 1 unit (16 hrs class)  
**ORTHODONTICS 234. ORTHODONTICS IN THE JUVENILE AND ADULT PATIENTS.** Indications and contra-indications, limitations and possibilities of orthodontics treatment for juvenile and adult patients. Orthodontics treatment prior to prosthodontics. Credit: 2 units (32 hrs class)  
**ORTHODONTICS 235. ORTHODONTICS DIAGNOSIS.** Inter-relationship between orthodontics and other specialties. Credit: 2 units (32 hrs class)  
**ORTHODONTICS 241. CLEFT LIP AND PALATE MANAGEMENT.** Anatomy and histopathology of cleft lip and palate. Orthodontic management of the cleft patient; team approach. Credit: 1 unit (16 hrs class)  
**ORTHODONTICS 242. SURGICAL ORTHODONTICS.** Surgical management of jaw anomalies; coordinated by an orthodontist-surgeon tandem. Credit: 1 unit (16 hrs class)  
**ORTHODONTICS 243. TRENDS IN ORTHODONTICS TREATMENT.** Trends and case studies. Credit: 1 unit (16 hrs class)  
**ORTHODONTICS 245. ORTHODONTIC SEMINARS II.** Critical evaluation of orthodontic cases in relation to the different treatment approaches. Credit: 2 units (32 hrs class)  
**ORTHODONTICS 251. BIOSTATICS IN DENTISTRY.** Theory and application of statistical methods and computerization in Dentistry. Credit: 2 units ( 16 hrs class)  
**ORTHODONTICS 252. RESEARCH METHODOLOGY.** Application of research methods to orthodontic research. Credit: 2 units; Pre-requisite: Ortho 251  
**ORTHODONTICS 261. CLINICAL PRACTICE AND CONFERENCE IN ORTHODONTICS A.** A general overview of orthodontics clinical practice. Gathering and recording of all pertinent data for case analysis of patients for orthodontic treatment. Credit: 2 units (15 hrs/ week lab)  
**ORTHODONTICS 262. CLINICAL PRACTICE AND CONFERENCE IN ORTHODONTICS B.** Clinical conference and application of methods of providing orthodontic care. Credit: 2 units (20 hrs/week lab)  
**ORTHODONTICS 263. CLINICAL PRACTICE AND CONFERENCE IN ORTHODONTICS C.** Clinical conference and application of methods of providing orthodontic care. Credit: 2 units (20 hrs/week lab)  
**ORTHODONTICS 264. CLINICAL CONFERENCE AND PRACTICE IN ORTHODONTICS D.** Clinical conference and application of methods of providing orthodontic care. Credit: 2 units (20-hrs/week lab)  
**ORTHODONTICS 266. CLINICAL PRACTICE AND CONFERENCE IN ORTHODONTICS B.** Clinical conference and application of methods of providing orthodontics care. Credit: 2 units (20 hrs/week lab)  
**ORTHODONTICS 300. THESIS.** Credit: 6 units

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