COURSE DESCRIPTIONS

DENT 111 General Anatomy I / Regional Anatomy (3 units lecture, 2 units laboratory). This subject deals with the architecture and interrelation of the different parts of the body obtained by gross dissection and studied by regions involving the different tissues such as bones, muscles, nerves, blood vessels and different visceral organs which constitute a systemic anatomical knowledge and form the basis for clinical study.

DENT 121 General Anatomy II / Head and Neck Anatomy (3 units lecture, 2 units laboratory). This subject deals with the thorough study of the head and neck at the macroscopic level. Emphasis is on the maxillofacial structures, pharyngeal regions and its fascial planes. Clinical correlations included to integrate anatomy with dentistry. Pre-requisite: General Anatomy I

DENT 114 Oral Anatomy (2 units lecture, 2 units laboratory). The study of the morphology of deciduous and permanent dentition, their arrangement and relationship with supporting structures. It also includes the study of the paleontology of the human dentition, growth and development of the skull and jaws correlated to the eruption of teeth and the forces of occlusion.

DENT 112 General Microscopic Anatomy and Embryology / General Histology (2 units lecture, 2 units laboratory). This course deals with the biological structures of functionally complex integrated cells and tissues that compose the human organ system. Developmental processes are emphasized, particularly the structure of teeth and their supporting tissues, as well as a detailed study of the development of the face, jaws and teeth.

DENT 122 Oral Microscopic Anatomy and Embryology / Oral Histology (2 units lecture, 2 units laboratory). Microscopic study of the oral tissues with emphasis on the structure of teeth and their supporting tissues, as well as the detailed study leading to the development of the face, jaws and teeth. Pre-requisite: Oral Anatomy, General Microscopic Anatomy and Embryology

CHEM 301 Biochemistry (3 units lecture, 2 units laboratory). The study of the chemistry of the cells and organelle constituents and its relations to the general metabolism of the body; the metabolism of food stuffs, the role of hormones, vitamins and enzymes of the human body chemical processes.

DENT 123 General Physiology with Family Planning (2 units lecture, 2 units laboratory). A study of the general physiology with emphasis on the digestive, nervous, cardiovascular, endocrine and other systems to include the metabolism of calcium and phosphorus. Emphasis is given on its practical application to dentistry together with integration of items on family planning and HIV / AIDS. Pre-requisite: General Anatomy I

DENT 124 Dental Materials (2 units lecture, 1 unit laboratory). The physical and chemical properties of materials used in dentistry, its clinical application and manipulation. This includes biomaterials and their application to dentistry. Pre-requisite: Oral Anatomy

DENT 126 Microbiology (2 units lecture, 1 unit laboratory). A basic course on the biology of pathogenic microorganisms which include bacteria, fungi, rickettsiae, protozoa, helminthes and others, as related to oral health. Emphasis on the dental aspects that are applicable.
DENT 216 Oral Physiology (3 units lecture). The physiology of the stomatognathic system and occlusion and its application to the dental practice. **Pre-requisite:** General Physiology, Biochemistry

DENT 211 General Pathology (2 units lecture, 2 units laboratory). General Pathology is the study of the origin and basic reaction of cells and tissues to the abnormal stimuli underlying all diseases with emphasis on the pathologic processes of the oral cavity. **Pre-requisite:** General Anatomy I and II, General Physiology, Biochemistry

DENT 221 Oral Pathology I (2 units lecture, 2 units laboratory). The study that deals with the gross and microscopic abnormalities, as well as the clinical manifestations of oral disease. **Pre-requisite:** General Pathology, Oral Microscopic Anatomy

DENT 324 Oral Pathology II / Oncology (3 units lecture). The pathology of neoplasm and other diseases of the adjacent structures in the oral cavity with emphasis on laboratory and diagnostic procedures and suggested treatment. **Pre-requisite:** Oral Pathology I, Diagnosis and Treatment Planning I and II

DENT 212 Pharmacology (2 units lecture, 1 unit laboratory). The pharmacodynamics and kinetics, phathotherapeutics and pharmacognosy, and prescription writing of drugs used in dentistry and medicine. Special emphasis is made on the dental significance of these drug actions. Prescription writing and the proper dispensation of drugs are also discussed. Medications commonly employed in the management of dental-related diseases are discussed. Emphasis is stressed on their potential interaction with total patient care. **Pre-requisite:** General Anatomy I and II, General Physiology with Family Planning, Biochemistry

DENT 225 Anesthesiology (2 hours lecture, 1 unit laboratory). This course covers the history, agents employed, pharmacology, modes of administration, stages, sequence, anxieties, selection and untoward effects of an anesthetic drug. It also includes regional anatomy and techniques for conductive, infiltration and regional anesthesia. **Pre-requisite:** Pharmacology

DENT 213 Restorative Dentistry I (2 units lecture, 2 units laboratory). This course discusses the basic principles and technique of cavity preparation and the restoration of teeth with silver amalgam alloy and aesthetic restorative materials. A discussion of the etiology, clinical manifestations, diagnosis and management of dental caries. **Pre-requisite:** Oral Anatomy, Oral Microscopic Anatomy and Embryology, Dental Materials

DENT 222 Restorative Dentistry II (2 units lecture, 1 unit laboratory). Technical procedures in restoring lost tooth structure to their proper form, function and aesthetics using first simulators with typodont and later on using live patients. **Pre-requisite:** Restorative Dentistry I

DENT 214 Prosthodontics I - FPD (2 units lecture, 2 units laboratory). Study of the planning and construction of fixed partial dentures considering the biological requirements for restoring the normal oral function and aesthetics. **Pre-requisite:** Oral Anatomy, Oral Microscopic Anatomy and Embryology, Dental Materials. **Co-requisite:** Restorative Dentistry I

DENT 223 Prosthodontics II - RPD (2 units lecture, 2 units laboratory). The basic principles of restoring missing teeth and associated structures of partially edentulous oral cavity with removable prosthesis. This course also includes designing, prescription writing and the selection of the appropriate biocompatible materials. **Pre-requisite:** Prosthodontics I, Dental Materials, Oral Physiology and Occlusion
DENT 224 Prosthodontics III - CD (2 units lecture, 2 units laboratory). A study of the rehabilitation of completely edentulous patients based on the principles of biomechanics and aesthetics using appropriate biocompatible materials. **Pre-requisite:** General Anatomy I and II, Oral Anatomy, Oral Physiology and Occlusion, Dental Materials

DENT 215 Roentgenology (2 units lecture, 1 unit laboratory). This course aims to provide a thorough understanding of the principles of radiography and its application in practice insofar as they are related to the work of a general practitioner. Emphasis will be given on the materials used in radiography and the principles involved in their use; the properties of a good diagnostic radiograph; radiation safety measures to guard against radiation hazards; intra- and extra-oral radiographic interpretation including normal radiographic landmarks and pathologies. **Pre-requisite:** General Anatomy I and II, Oral Anatomy

DENT 226 Orthodontics I (2 units lecture, 1 unit laboratory). Fundamentals of growth and development of the craniofacial structures and their relation to the stomatognathic system. **Pre-requisite:** Oral Anatomy, Oral Microscopic Anatomy and Embryology, Oral Physiology

DENT 314 Orthodontics II (2 units lecture, 1 unit laboratory). Prevention and interception of malocclusion through timely diagnosis of the orthodontic problem. **Pre-requisite:** Orthodontics I

DENT 317 Periodontology (2 units). The study of normal and abnormal periodontium, together with etiology, pathology, therapeutic and surgical management of periodontal diseases. **Pre-requisite:** Oral Microscopic Anatomy and Embryology, Oral Pathology I, Roentgenology

DENT 312 Oral Diagnosis and Treatment Planning (2 units). This course deals with the comparative analysis of oral disease, as differentiated by their clinical manifestations. Various supplemental tests are discussed to aid in the diagnosis of oral disease. **Pre-requisite:** Oral Diagnosis and Treatment Planning I, Oral Physiology and Occlusion, General Pathology, Oral Pathology I

DENT 311 Oral Surgery I (2 units lecture). The general principles of surgery and how they are applied to dental procedures. **Pre-requisite:** General Pathology, Oral Physiology, Anesthesiology, Roentgenology, Pharmacology

DENT 321 Oral Surgery II (2 units lecture). Study of the surgical management of complicated extractions, reduction and fixation of traumatic injuries of the face and jaws and surrounding tissues, and other conditions related to orthognathic surgery and other pathological lesions of the oral cavity. Orientation on team approach in surgery with the general surgeon in the management of oral lesions and secondary tissues. **Pre-requisite:** Oral Surgery I

DENT 313 Endodontics (2 units lecture, 1 unit laboratory). Diagnosis and treatment of diseases of the dental pulp and periapical tissues. **Pre-requisite:** Oral Physiology, Oral Pathology I, Pharmacology, Roentgenology

DENT 323 Practice Management and Entrepreneurship (2 units lecture). The practice of dentistry in relation to the social, economic and cultural conditions of the community. **DENT 325 Dental Jurisprudence and Ethics (2 units lecture).** The relation of law and ethics to the dental practice.

DENT 412 Community Dentistry II (2 units lecture, 1 unit laboratory). Concepts, principles and methods of prevention applied to major dental public health problems. Pre-requisite: Community Dentistry I

DENT 422 Community Dentistry III (1 unit lecture, 2 units laboratory). The principles and methods designed in the practice of community dentistry, including field experience. Pre-requisite: Community Dentistry II


DENT 411 Hospital Dentistry I (1 unit lecture, 2 unit laboratory). Dental externship for senior students at a local hospital designed to orient the students with hospital procedures and the scope and functions of other divisions of health services. Pre-requisite: General and Oral Pathology, Microbiology, Pharmacology and Principles of Medicine

DENT 421 Hospital Dentistry II (1 unit lecture, 2 unit laboratory). Externship for senior students in a local hospital exposure in interdepartmental referral system, and proper hospital decorum. Pre-requisite: Hospital Dentistry I

DENT 318 Clinical Dentistry I (6 units laboratory). Application of the principles and methods of providing dental care in some clinical areas (Restorative Dentistry, Prosthodontics, and Roentgenology) under the close supervision of the clinical supervisor. Pre-requisite: Restorative Dentistry I and II, Prosthodontics I, II and III, Roentgenology

DENT 328 Clinical Dentistry II (6 units). Application of the principles and methods of providing dental care in the various clinical areas under close supervision of the clinical supervisor (continuation of Clinical Dentistry I) Pre-requisite: Clinical Dentistry I

DENT 417 Clinical Dentistry III (10 units). Application of principles and methods of providing dental care in the various clinical areas, given a set of clinical requirements with minimum supervision of the clinical supervisor. Pre-requisite: Clinical Dentistry II

DENT 427 Clinical Dentistry IV (10 units). Clinical application of the competencies acquired in Clinical Dentistry III. This is a continuation of the requirements in Clinical Dentistry III. A validation examination will be given in Restorative Dentistry, 203
Prosthodontics and Roentgenology. This examination will be included as part of the requirements in Clinical Dentistry IV and a pre-requisite for graduation. **Pre-requisite**: Clinical Dentistry III

**CMSD 110 Computer Fundamentals and Dental Informatics (3 units lecture, with hands on)**. The principles and programs of computer, as applied to the practice of dentistry.

**DENT 125 Nutrition in Dental Education (2 units lecture)**. The role of essential nutrients in health and disease with emphasis on maternal and pediatric oral health and the pathogenesis of malnutrition. **Pre-requisite**: Biochemistry

**DENT 310 Management of Emergencies in the Dental Clinic (1 units)**. This course deals with the management of medical and dental emergencies that can happen in the dental clinic.

**DENT 319 Sedation (1 unit)**. This subject covers nitrous oxide / oxygen sedation as well as the physiologic and psychological aspects of pain and anxiety control. Sedation techniques involving intravenous drugs and medicines are discussed as well. **Pre-requisite**: Anesthesiology

**DENT 320 The Dentist as a Missionary (2 units)**. This subject deals with the incorporation of a Christian mission together with the dental profession.

**DENT 316 Principles of Medicine (2 units lecture)**. This course is designed to provide a logical framework for learning as well as working knowledge of internal medicine needed for diagnosis of dental patients with medical illnesses in relation to dentistry. **Pre-requisite**: General Anatomy I and II, General Physiology, General Pathology, Biochemistry, Pharmacology and Microbiology

**DENT 315 Research I – Methods of Research (2 units lecture)**. Principles and methods in research and its application to dentistry focused on developing a research protocol. **Pre-requisite**: Biostatistics

**DENT 322 Research Writing II – Research Presentation (2 units lecture)**. The basic principles in preparing a technical paper and theses for presentation and discussion in scientific forum and/or publication. **Pre-requisite**: Research I

**DENT 329 Forensic Dentistry (1 unit lecture)**. Deals with the study of dental parts of the body in the confirmation of identity of victims.

**DENT 418 Current Trends in Dentistry (1 unit)**. A study concerned with the latest developments in Dentistry like dental materials, dental technology, new techniques and other areas related to clinical dentistry like infection control practices, genetics and medically compromised patients.

**DENT 419 Basic Dental Implantology (1 unit)**. Scientific and technical foundation for implant surgery and expansion of basic implant procedures, post-placement care, long-term maintenance and clinical complications associated with dental implants.

**Special Studies / Seminars I and II**. Clinical conference on problems encountered in the clinics designed to develop critical thinking based on the principles and techniques learned and synthesized from previous foundation courses.

**DENT 413 Restorative Dentistry Seminar I (1 unit)**
**DENT 414 Prosthodontics Seminar I (1 unit)**
**DENT 415 Oral Surgery Seminar (2 units)**
**DENT 416 Orthodontics-Pedodontics Seminar I (1 unit)**
**DENT 423 Restorative Dentistry Seminar II(1 unit)**
DENT 424 Prosthodontics Seminar II (1 unit)
DENT 425 Endodontics-Periodontics Seminar (2 units)
DENT 426 Orthodontics-Pedodontics Seminar II (1 unit)

DENT 428 Special Care Dentistry (1 unit). This course deals with the recognition and management of patients with special needs, including patients whose medical conditions require more than conventional dental care, handicapped and geriatric patients.

DENT 429 Revalida (2 units lecture). Evaluation of comprehensive knowledge of basic and clinical dentistry.