

**COURSE DESCRIPTION**  
**BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY (effective 2008-09)**

**ANA 1 - Histology, Embryology and Anatomy of the Limbs – 4 units (2 units lecture/4 units laboratory)**

This course is a comprehensive study of the gross anatomy of the human body which covers the head, neck, thorax, back, abdomen, pelvic floor, upper and lower extremities. Emphasis is given to the musculoskeletal system. Cadaver dissection and practical correlation are performed during the laboratory sessions.

**ANA 2 - Neuroanatomy - 4 units (3 units lecture/1 unit laboratory)**

This course provides a basic learning experience in gross and microscopic human neuroanatomy. It focuses on the study of the central nervous system and peripheral nervous system and related neurological structures as preparatory for the rehabilitation management of different neurological conditions. An opportunity for first-hand dissection experience which includes brain-cutting and identification of neural structures on fresh brain specimens are provided during the laboratory sessions.

**ANA 3 - Systemic Anatomy – 3 units (2 units lecture/1 unit laboratory)**

The course is designed to provide a basic learning experience in human embryology, histology, genetics and systemic anatomy of the human body with emphasis on the study of the gross structures and functions of the different systems of the body namely: integumentary, respiratory, circulatory, endocrine, urinary, reproductive, lymphatic and cardiovascular. Models, cadaver dissection and histological slides are used for better understanding of the course.

**ANA 4 – Kinesiology: Functional Anatomy – 4 units (3 units lecture/1 unit laboratory)**

The course deals with the study of the biomechanics, physiology and anatomy of bodily motion as related to locomotion, activities of daily living and physical exertion in normal and disabled persons. Special emphasis is given to clinical application of the principles and techniques in occupational therapy. Carried out through lectures, demonstrations, and practice of laboratory simulation.

**PHYSIO 1 – Physiology of Musculoskeletal System and Neurophysiology – 5 units (4 units lecture/1 unit laboratory)**

The course provides an introduction to cellular physiology, concerned with properties that characterizes all living cells. A thorough discussion is made on special cell types such as neurons and muscle fibers with emphasis on the musculoskeletal and nervous system. Laboratory sessions through experimentation are done.

**PHYSIO 2 - General & Systemic Physiology - 3 units (2 units lecture/1 unit laboratory)**

The course provides a continuum in the study of physiology of the human body with emphasis on systemic physiology in which the activity of the different tissues and organs subserve the various coordinated functions of the human body.

**PATHO - Pathology and Pathophysiology - 2 units lecture**

The course provides a background knowledge on general pathology, tissue/cellular reaction to inflammation and injury, regeneration, tissue repair and process of healing and immunity. It is also studies the relationship between the host, environment and pathogen in health and disease. The course offers a demonstration by audio-visual aids on the pathologic changes of cell, tissue and common pathogens.

### **MEDICAL FOUNDATION 1 - General Medical Condition, Pediatrics Conditions - 5 units lecture**

The course offers a discussion of medical and surgical terminologies, disease entities in adult and pediatric patients with emphasis on conditions commonly encountered in occupational therapy practice in the following areas: cardiovascular and pulmonary conditions, brain injuries, immunological, traumatic or infectious, malignancy, genetic abnormalities and endocrine deficiencies. Pharmacology is also discussed with emphasis on generic names of different medications, its effects and contraindications in relation to the different conditions being handled by an occupational therapist.

### **MEDICAL FOUNDATION 2 – Neurology - 3 units Lecture**

An in-depth study of the nervous system and the pathophysiology underlying neurological conditions are included. Emphasis is given to the study of the different neurological conditions involving the central and peripheral nervous systems including its rehabilitation management.

### **MEDICAL FOUNDATION 3 – Orthopedics, Rheumatology & Surgical Conditions – 5 units Lecture**

This course deals on surgical conditions that lead to transient or permanent disability-causing conditions and its sequelae. Includes topics on bone growth healing process, stages of bone maturity, radiological changes and correlation of various disease processes. Discussion on rheumatology and specific orthopedic conditions such as tumor amputation, congenital defects and abnormalities, fractures and prosthetic replacements of hip, knee, interphalangeal joints, etc., are taken up. Rehabilitation, evaluation and management are included.

### **HUMAN BEHAVIOR IN OCCUPATIONAL THERAPY - Personality Theories, Communication, Teaching Learning Process, Counseling – 4 units (3 units lecture/ 1 unit laboratory)**

A study of the normal human behavior, the structures, dynamics and development of personality; motivation; and interpersonal relationships. Likewise, abnormal behavior is taken into consideration in the course of study in relation to the theories and its relevance to OT. Personality theories are applied to OT practice through an introduction of group dynamics, techniques of counseling, and teaching - learning process. Carried out through lectures, case studies, group process techniques, laboratory experiments and activities.

### **MEDICAL FOUNDATION 4 – Psychiatric Foundations in OT - 3 units Lecture**

A study of the human behavior in general together with the psychic factors and personality components. It also involves learning the different physiological conflicts in life and emotional aspects of medical diseases together with the subsequent normal and abnormal defensive mechanism. Emphasis is given on the various causes, clinical features and categories of mental disorders.

### **HUMAN DEVELOPMENT - 4 units lecture**

A study on various stages in life starting from prenatal period to old age. Emphasis is given on developmental changes (physical, psychological & emotional ) expectations, task, roles as well as issues & stressors during each stage in life.

**OT 1 -INTRODUCTION TO OCCUPATIONAL THERAPY & REHABILITATION - 3 units  
(2 units lecture/1 unit laboratory)**

The course deals with orientation to occupational therapy and rehabilitation and community health in relation and emphasis to OT practice in the Philippines. Also includes history, objectives, uniform terminology, basic tools of practice, functions and roles of OT in health care system, and linkages with medical and allied professionals.

**OT 2 – Theoretical Foundations in Occupational Therapy - 3 units lecture**

This course deals with the beginnings of Occupational Therapy, current basis for theory and philosophy, the different Frames of Reference and approaches in OT which are presented in relation to different areas/field of practice particularly in psychosocial and physical dysfunctions. It also includes knowledge bases and specialized knowledge bases for OT practice as well as objectives, uniform terminology, basic tools of practice, functions and roles of OT in health care system, and linkages with medical and allied professionals.

**OT 3 - Evaluation In Physical Dysfunction – 3 units (2 units lecture/1 unit laboratory)**

An in-depth study of the standardized and non-standardized evaluations, evaluation procedures and modalities currently utilized by occupational therapists in physically dysfunctions as related to the OT Approaches and/or Frames of References used. It provides the students knowledge and skills in the administration of appropriate techniques/test procedures, proficiency in proper documentation, analyze and identify pertinent problems, and set goals/objectives. Carried through lectures, demonstrations, and laboratory simulations.

**OT 4 – OT Evaluation In Psychosocial Dysfunction – 3 units (2 units lecture/1 unit laboratory)**

This course provides students with knowledge and skills in applying occupational therapy standardized and non-standardized evaluation techniques and modalities, interview process, assessment, and documentation to psychosocial dysfunctions. Application of procedures and demonstration, and laboratory simulations.

**THERA S1 - Therapeutic Skills 1 – 5 units (3 units lecture/2 units laboratory)**

A course on the significance and value of daily life activities as they influence adaptive behavior and the health-illness continuum. Also deals with activity analysis principles and age-appropriate activities as therapeutic modalities. Rationale, as therapeutic media, of minor and major arts and crafts are attended to and simulated in the laboratory.

**THERA S2 - Therapeutic Skills 2: – 4 units (2 units lecture/2 units laboratory)**

Development and mastery of skills in the use of various structured and semi-structured media, tools and processes, including major crafts construction and adaptive devices fabrication. Rationale and task analysis in the understanding of occupation are developed, as construction are simulated in the laboratory. Includes an overview and for physically-disabled client used in occupational therapy practice. Includes the prevocational and vocational aspects of rehabilitation, ergonomics, work hardening, and introduction to industrial rehabilitation.

**OT 5A - Occupational Therapy Management In Adult Physical Dysfunction – 4 units (3 units lecture/1 unit laboratory)**

Philosophy approaches, interpretation and application of occupational therapy practice in the management and rehabilitation of adult and the aging population with physical dysfunction as regards to human competency and family adaptation, occupational choice and satisfaction. It includes treatment planning and implementation through clinical simulations and practice in a laboratory.

**OT 5B - Occupational Therapy Management In Pediatric Physical Dysfunction – 3 units (2 units lecture/1 unit laboratory)**

Philosophy, approaches, interpretation and application of occupational therapy in the management and rehabilitation of pediatric population with emphasis on physical dysfunctions rehabilitation of development; delays and disabilities from birth to adolescence as regards to competency in age-appropriate skills and occupations. Laboratory includes clinical simulation and/or actual handling.

**OT 6 - Occupational Therapy Management In Psychosocial Dysfunction – 5 units (4 units lecture/1 unit laboratory)**

A study of occupational therapy treatment principles and approaches, treatment planning and implementation in the management and rehabilitation of persons with psychosocial dysfunctions as they relate to themes of intrinsic motivation, decision-making, goals, temporal adaptation, skills and the environment. And the application of the modalities of minor and major crafts and group processes in psychiatric occupational therapy in a simulated setting. Emphasis in program planning, development & implementation on selected patient case load & case presentation on hospital & community mental health are also carried out.

**OT 7 – Occupational Therapy In Community Health & Rehabilitation – 3 units (2 units lecture/1 unit laboratory)**

A course that study on the roles/functions of occupational therapy in community health and rehabilitation programs and services such as home health care, rural health, vocational rehabilitation and etc. also included are the application principles of community development and maintenance of health and self-reliance are taken into consideration. The laboratory deals with community diagnosis, assessment, program planning, and implementation of appropriate community health/rehabilitation programs. Also includes are occupational therapy evaluations and assessment for pre-vocational exploration of clients with disabilities in the community.

**ORGANIZATION & ADMINISTRATION IN OCCUPATIONAL THERAPY - 3 units lecture**

Deals with the principles of organizations, programming, administration and management as they relate to the standards of practice in the delivery of occupational therapy services. In addition, local laws affecting the profession. The AOTA professional code of ethics and its locally adapted code and their implementing guidelines are tackled to direct the students toward moral, legal, ethical clinical reasoning and professional behaviors and attitudes.

**PROFESSIONAL ETHICS IN OCCUPATIONAL THERAPY - 3 units lecture**

The course discusses the basic scope, importance and application of ethics in the practice of OT both locally and abroad. This course will help Occupational Therapy students to familiarize themselves with process of ethical reasoning especially as it refers to medical situations. The aim is to help the students to arrive at a right decision after considering the scientific, moral, legal & ethical aspect of a given situation. It also includes some information on medical jurisprudence, bioethics and Christian Morality that are relevant to the practice of OT. It also covers the AOTA professional code of ethics and its locally adapted code and their implementing guidelines, existing laws that may affect the practice of OT as well as important standards of practice in OT, Core Values & Ethical Dimensions in OT.

### **ORTHOTICS & PROSTHETICS – 5 units (3 units lecture/2 units laboratory)**

The course deals with the study of the principles of splinting, casting, bandaging, bracing and use of artificial limbs. It includes their indications, contraindications, prescriptions, measurements, principle of fabrications, fitting and checking out of orthopedic shoes and appliances. Laboratory sessions include the design, fabrication and evaluation of the common static and dynamic upper extremity splints and selected lower extremity splints and the use of braces, crutches, etc.

### **PHARMA - Pharmacology for Allied Health Professions - 2 units lecture**

The course is designed to provide physical therapy students with a comprehensive yet understandable survey of current pharmacology with special emphasis on the relationship of drug therapy to rehabilitation. It integrates and expands the student's knowledge in the basic sciences (anatomy, physiology, and pathology) while building on their concurrent studies on medical and surgical conditions, and exposing them to the importance and relevance of drug therapy in rehabilitation. It provides an overview of pertinent aspects of drug therapy in rehabilitation, including which drugs are used to treat specific problems, the rationale for their use, how specific drugs work, and more importantly, the manner in which these drugs may impact on various rehabilitation treatments.

### **IEOT - Introduction To Electrotherapy In Occupational Therapy – 3 units (2 units lecture/1 unit laboratory)**

Orientation to theory, principles, physical, and physiological basis of the use and applications of physical agents modalities such as heat, cold, light, high and low frequency currents, TENS, and sound waves as many be relevant to occupational therapy treatment/management of the upper extremity. Laboratory includes handling and operation of the equipment and procedural simulations.

### **RES METH - Research Methodology (Proposal Writing) - 3 units**

The course deals with the principles, process, procedures and tools used in research, particularly, in health professions. It includes the discussion, the definition, types and process of research, problem identification and statement, identification and control of variables, formulation of hypotheses and assumptions, discussion of different populations and sampling methods and statistical tools. As a terminal output, the student creates a satisfactory research proposal.

### **THESIS 1 - Thesis Writing 1 (1 unit lecture)**

The course deals with the conceptualization and construction of a research proposal based on an approved topic evolving on the field of occupational therapy. It includes the application of research methodology and statistical principles in an attempt to answer the questions under the study. Thesis Writing 1 requires the students to pass a thesis proposal.

### **THESIS 2 - Thesis Writing 2 – (2 units lecture)**

A pre-requisite to graduation, and completion of a mature and original research in clinical setting. Studies responsible to problems in the clinics are encouraged. The course deals with the implementation of the research proposal and the presentation, analysis, and interpretation of the gathered data. It also includes the formulation of conclusions and recommendations based on the results of the study. Thesis Writing 2 requires the students to implement and defend the research paper.

**SEM 1 - Seminar 1 : BASIC SCIENCES AND MEDICAL SURGICAL CORRELATIONS –  
(2 units lecture)**

Review and survey of the basic sciences and medical foundations in relation to the current practices in rehabilitation and future trends; exploration of researches which may have impact on occupational therapy. Moreover, it deals with clinical conferences on selected neurological, cardiopulmonary, & musculoskeletal conditions, sports-related injuries, and congenital anomalies, including their definition, etiology, pathophysiology, and clinical manifestation, with emphasis on the evaluation and their comprehensive management from occupational therapy standpoint. In addition, are guided cases studies which provides the students an opportunity to apply his clinical-reasoning skills, develop in-depth treatment planning and consider issues in patient management in view of contemporary values and attitudes. Attendance to professional seminars, lectures, conventions are encouraged.

**SEM 2 - Seminar 2 : OCCUPATIONAL THERAPY APPLICATIONS AND CORRELATIONS –  
(2 units lecture)**

Review and survey of the current practices in rehabilitation and future trends; Includes in-depth analysis and discussion of up-to-date research journals and some undergraduate thesis related to Occupational Therapy. In addition, are guided OT application cases which provides the students an opportunity to apply his clinical-reasoning skills, improve in-depth treatment planning and consider issues in patient management in view of contemporary values and attitudes. Attendance to professional seminars, lectures, conventions are encouraged.