

Course Descriptions

Definition of Prefixes

APK-Applied Kinesiology; GEY-Gerontology; HSC-Health Sciences; NGR-Nursing Graduate; OTH - Occupational Therapy; PET-Physical Education Therapy; PHT-Physical Therapy; SPA-Speech Language Pathology

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

APK 6118C Rehabilitation Techniques in Athletic Training with Lab (4). Introduction to basic principles of rehabilitation of athletic injuries, including range of motion, pain control, balance, proprioception, strengthening, and endurance. Corequisite: PET 5678.

GEY 5005C Issues in Gerontology for Health Professions (3). This course examines social, economic, and demographic issues challenging older adults and health care professionals providing services to this age group.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

HSC 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings.

HSC 5665 Information and Communication for Health Professionals (3). Information and communication technology introduces technology and practical computer applications for today's health care professional. This on-line course uses a web-based format. Prerequisite: Basic computer experience.

HSC 5905 Health Independent Study (3). Faculty supervised project in health-related topics in association with the student's special interests.

NGR 5035C* Advanced Client Assessment (3). Refinement of health assessment skills fundamental to advanced nursing practice emphasizing critical thinking in advanced health assessments across the lifespan. Prerequisites: MSN admission; basic health assessment (3 credits), NGR 5141.

NGR 5064C Diagnostic and Therapeutics in Advanced Nursing Practice (3). Provides the advance practice nurse/student the theoretical background and clinical applications for diagnostics and therapeutics across the lifespan.

NGR 5110 Theories in Nursing (3). Analysis, evaluation, and application of theories from nursing and related disciplines to advanced nursing practice, research, education and administration. Prerequisites: Departmental permission, Graduate standing.

NGR 5131 Culture and Advanced Nursing Practice (3). Theoretical models explanatory of culture and behavioral manifestations of cultural diversity. Focuses on multicultural nursing and methodologies for nursing care throughout the life span. Prerequisite: Departmental permission.

NGR 5134C Interdisciplinary Health Care Across Cultures (3). The course focuses on health care teams. Types of service, roles and interdisciplinary interaction will be studied as they relate to policies, economics, ethics and ethnic issues in various countries. Prerequisite: Permission of Instructor.

NGR 5136 International Nursing System/Advanced Nursing Practice (3). Comparative analysis of philosophical, legal, political, economic and social underpinnings of the nursing progression within the context of international developments and trends in the post-cold war era.

NGR 5138 Cultural Immersion for International Health Care (1-2). The course introduces basic language, values, social etiquette, daily life, and interpersonal, family and health care patterns in a foreign country in preparation for cross-cultural health study. Prerequisite: Permission of the instructor.

NGR 5141 Pathophysiologic Basis of Advanced Nursing Practice (3). Focuses on the pathophysiologic basis of clinical judgment and client management in advanced nursing practice. Prerequisites: Graduate standing and permission of the department.

NGR 5168 Complementary and Alternative Therapies in Nursing and Healthcare (3). Provides the theory, practice and patterns of use in complementary and alternative practices and products (CAPPs). Integrates CAPPs knowledge with conventional healthcare using National Institutes of Health NCCAM framework.

NGR 5250 Physical Change and Healthy Aging (3). Emphasis on health alterations in aging, delivery of healthcare, and ethical decision-making and advocacy in relationship to common medical problems of the elderly and their families.

NGR 5263 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

NGR 5340 Women and Health: A Nursing Perspective (3). Analysis of the unique health concerns of women across the life span. Emphasizes a multidisciplinary approach. Prerequisite: Graduate standing.

NGR 5610C Family Theory and Nursing Intervention Across Cultures (3). Students are exposed to selective family theories, family nursing assessment, intervention and evaluation. Culture and economic status and their influence on family structure and processes are addressed. Prerequisites: Graduate status, permission of instructor.

NGR 5632 Practicum in International Family Focused Nursing (1). Students apply learning about nursing care in another country, assessment and intervention with families by instituting a change in their work/practice place at home. Prerequisite: Permission of Instructor.

NGR 5660C Leadership and Advocacy for Child and Family Health (3). Acquisition and application of leadership/advocacy skills with culturally diverse families to improve healthcare in professional/public healthcare settings.

NGR 5720C Organizational Dynamics and Nursing Systems (3). Course provides a theoretical understanding of the dynamics of organizational design and behavior. Emphasis is placed on skills to analyze, diagnose and intervene in organizational dynamics.

NGR 5723C Advanced Nursing Administration I (4). Analyzes how social/ethical/legal issues, workplace diversity and organizational culture influences nursing management. Strategies for recruitment, retention and managing human resources are included. Corequisite: NGR 5730C.

NGR 5737 Legal and Ethical Dimensions of Advanced Nursing Practice (3). Analysis of legal and ethical precepts and application to moral and legal dilemmas in advanced nursing practice focusing on the advocacy role in promoting rights of individuals and families. Prerequisite: Consent of instructor.

NGR 5810 Research Methods in Nursing (3). Research methods and designs commonly used in nursing. Focuses on the research process as it is integrated in the interchange of theory, practice, and research using information systems. Prerequisites: Statistics, departmental permission and NGR 5110.

NGR 5832 Applied International Nursing Research (3). Examines and applies international nursing research methods with a focus on global health related to health disparities in underserved populations in health disparities in underserved populations in local, national, and international areas. Prerequisites: PHC 6704 or comparable.

NGR 5871C Nursing Informatics: Computer Mediated Information Technology in Nursing (3). Analysis, design, implementation, and evaluation of information and communication systems that enhance individual and population health outcomes, improve patient care, and strengthen the clinician-patient relationship. Prerequisites: Undergraduate statistics; Permission of the instructor.

NGR 5905 Independent Study in Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, Permission of the instructor, and admission to a graduate program.

NGR 5936 Special Topics in Nursing (1-6). Critical analysis of the clinical decision making process in advanced health nursing practice (ANP). Synthesis of learning from previous clinical courses. Prerequisite: Must be a nursing student or Florida licensed RN.

NGR 5495 Women's Health Issues (3). This course is designed to acquaint the student with selected conditions impacting the health of women.

NGR 6123 Knowledge Development in Nursing Science (3). This course examines theory development, philosophical inquiry, and ways of organizing nursing knowledge. Attention is directed to inquiry as grounded in languages and cultures. Prerequisite: Departmental permission.

NGR 6172 Pharmacological Concepts in Advanced Nursing Practice (3). In-depth study of principles of pharmacology, pharmacokinetics and pharmacodynamics. Emphasis on common prescription and non-prescription drugs used in advanced nursing practice across the

lifespan. Prerequisites: Graduate standing and departmental permit.

NGR 6201C Advanced/Adult Health Nursing I (3). Study of Advanced Adult Practice Nursing and specialization, expansion and advancement of evidence-based knowledge and skills fundamental to the role of the Adult Nurse Practitioner in primary care. Prerequisites: NGR 5035C, NGR 5141, NGR 6172. Corequisite: NGR 6201L.

NGR 6201L* Advanced Adult Health Nursing Practice I (3). Clinical implementation of evidence-based knowledge and skills required of the advanced adult practice nurse in the prevention, diagnosis and management of acute health conditions in primary care. Corequisite: NGR 6201.

NGR 6202C* Advanced Adult Health Nursing II (3). Continuing development of evidence-based knowledge and skills fundamental to the adult nurse practitioner role in the care of clients experiencing chronic and multisystem illnesses. Prerequisite: NGR 6201C, NGR 6201L. Corequisite: NGR 6202L.

NGR 6202L* Advanced Adult Health Nursing Practice II (3). Clinical implementation of evidence-based knowledge and skills fundamental to the adult nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Corequisite: NGR 6202.

NGR 6209 Clinical Decision Making in Advanced Adult Health Nursing (3). Critical analysis of clinical decision making in ANP. Synthesis of learning to recognize similarities, differences, and contextual factors related to diagnosis and management of diseases and injuries. Prerequisites: NGR 6201, NGR 6201L, NGR 6202, NGR 6202L. Corequisite: NGR 6700L.

NGR 6301C Advanced Child Health Nursing I (3). Development of evidence-based and theoretical knowledge for the advanced pediatric nurse in health promotion, disease prevention and management of acute health conditions in primary care settings. Prerequisites: NGR 5035C, NGR 5141, and NGR 6172. Corequisite: NGR 6301L.

NGR 6301L* Advanced Child Health Nursing Practice I (3). Implementation of evidence-based knowledge and skills for the advanced pediatric nurse in health promotion, disease prevention and management of acute health conditions in primary care settings. Corequisite: NGR 6301C.

NGR 6302 Advanced Child Health Nursing II (3). Continuing development of evidence-based knowledge and skills fundamental to the pediatric nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Prerequisites: NGR 6301C, NGR 6301L. Corequisite: NGR 6302L.

NGR 6302L* Advanced Child Health Nursing Practice II (3). Application of evidenced-based knowledge and skills fundamental to the pediatric nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Corequisite: NGR 6302.

NGR 6333 Conceptual Issues in Nursing Management of Developmental Disabilities (3). Study of developmental theories, concepts and research findings in context of nursing model. Problems relevant to nursing intervention are examined through critique of pertinent

literature. Corequisites: Graduate standing and permission of the department.

NGR 6337 Clinical Decision Making in Advanced Child Health Nursing (3). Critical analysis of the clinical decision making process in advanced child nursing practice. Synthesis of learning from previous clinical courses. Prerequisites: NGR 6301C, NGR 6301L or NGR 6302, NGR 6302L.

NGR 6337L Role Synthesis in Advanced Child Health Nursing Practice (4). Capstone course synthesizing role functions of the Pediatric Advanced Practice Nurse with emphasis on professional practice issues and transition into the practice role. Prerequisites: NGR 6301C, NGR 6301L, NGR 6302, NGR 6302L.

NGR 6400 Chemistry and Physics for Anesthesiology Nursing I (2). Detailed study of the chemical and physical principles which apply to physiology, pharmacology and anesthesia equipment. Emphasis is placed on biochemistry and physics of gases and vapors. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6401 Chemistry and Physics for Anesthesiology Nursing II (1). A continuation of the focus on the biochemical and physical principles required for understanding the mechanisms, actions, equipment and theories as they apply to anesthesia practice. Prerequisite: Graduate Anesthesiology Track.

NGR 6404 Advanced Bioscience for Anesthesiology Nursing I (3). Course in human anatomy, physiology, and pathophysiology to include the effects of anesthesia on the cell, the circulatory system, and the respiratory system. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6405 Advanced Bioscience for Anesthesiology Nursing II (3). Study of the anatomy and physiology of the endocrine, excretory, and neurological systems. This will progress to the pathophysiology of these systems with emphasis on the application of anesthesia. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6421 Principles of Anesthesiology Nursing I (2). Broad field orientation to practice. Study of the areas of pre, intra, and post-anesthesia planning and action. The induction and emergence from anesthesia, monitoring and record keeping are included. Prerequisite: Graduate Anesthesiology Track.

NGR 6422 Principles of Anesthesiology Nursing II (3). The course will emphasize the anesthetic management of the pediatric, geriatric and obstetrical patient. The course will review the specific anesthetic needs for each specialty. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6423 Principles of Anesthesiology Nursing III (2). Principles of cardiothoracic anesthesia, preoperative assessment, pre, intra, and postoperative management, extra-corporeal circulation, cardiac assist devices, and pharmacological intervention. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6424 Principles of Anesthesiology Nursing IV (2). The course will emphasize the anesthetic management of the emergency and trauma patient. A review of the assessment process, clinical management, and placement of appropriate monitoring lines. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6431L Anesthesiology Nursing Practicum I (1). Introduction to the art and science of anesthesiology nursing. This course presents the basic concepts and introduces the students to the clinical component of the anesthesia management technique. Prerequisite: Graduate Anesthesiology Track.

NGR 6432L Anesthesiology Nursing Practicum II (2). Clinical anesthesiology correlation conferences on a weekly basis. This clinical component includes the fundamentals of patient interaction under the direct supervision of a CRNA instructor. Prerequisite: Completion Sem. I Anesthesiology.

NGR 6433L Anesthesiology Nursing Practicum III (3). (Include Clinical Case Conference). Case presentations to include the clinical component of anesthesia of progressively advanced cases. The instruction is under the direct supervision of CRNA to include between university semesters. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6434L Anesthesiology Nursing Practicum IV (4). Seminar presentations weekly. Clinical experience: anesthetic management of advanced specialties, including insertion of monitoring lines as appropriate, and progression begin on-call experience. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6435L Anesthesiology Nursing Practicum V (4). Students will incorporate information learned in Practicum I-IV in order to anticipate anesthesia needs for patients in all clinical settings, including post-operative and chronic pain management. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6436L Anesthesiology Nursing Practicum VI (4). Advanced practice to include completion of clinical competencies in all specialty areas. This includes professional conduct of the advanced practitioner to include knowledge of advance practice role. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6437L Anesthesiology Nursing Practicum VII (4). Course in which a graduate functions as the primary nurse anesthetist, and the instructor as a consultant. Experience will be provided with management within the department of anesthesiology. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6460 Pharmacology of Anesthesiology Nursing I (1). Pharmacology of drugs affecting the autonomic nervous system as well as anesthetic agents. Administration and doses of the drugs is included. Prerequisite: Graduate Anesthesiology Track.

NGR 6461 Pharmacology of Anesthesiology Nursing II (2). Course will study the uptake, distribution and biotransformation of anesthetics, including the advanced study of therapy in anesthesia of specialty areas and treatment of complications. Prerequisite: Graduate Anesthesiology Track.

NGR 6490 Regional Anesthesia (2). Theoretical and clinical aspects of the administration and management of regional anesthesia. Anatomy, physiology and pharmacology will be studied/applied to the administration of anesthetic blocks. Prerequisite: Graduate Nurse Anesthesiology.

NGR 6491 Advanced Anesthesiology Nursing Seminar (3). Advanced clinical review as presented by the graduate students regarding specific case presentations. The course will serve as a review for the National Certification Examination. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6492 Professional Aspects of Anesthesiology Nursing (1). This course explores: American Association of Nurse Anesthetists, Councils on Accreditation, Certification and Practice and Professional issues for the practice model of Anesthesiology in Nursing. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6493 Technology in Anesthesiology Nursing (1). The use and care of anesthesia equipment (mechanical and electronic) are discussed. Computers and their uses in anesthesiology are also included. Prerequisite: Graduate Anesthesiology Track.

NGR 6503 Advanced Psychiatric-Mental Health Nursing I (3). Development of an advanced practice nursing model in psychiatric-mental health across settings and populations. Prerequisites: NGR 5035C, 5141, NGR 6172. Corequisite: NGR 6503L.

NGR 6503L* Advanced Psychiatric-Mental Health Nursing Practice I (3). Management of psychiatric mental health disorders in time-limited and extended care therapies in collaboration with health care providers across delivery systems. Blends the ARNP/CNS. Corequisite: NGR 6503.

NGR 6504C Advanced Psychiatric-Mental Health Nursing II (3). Continued development of advanced practice nursing model in the psychiatric care of individuals, groups and families across settings and populations. Prerequisites: NGR 6503, NGR 6503L. Corequisite: NGR 6504L.

NGR 6504L* Advanced Psychiatric-Mental Health Nursing Practice II (3). Application of advanced practice nursing model with clients who have complex psychiatric problems or are at high risk. Collaborative process in therapy, consultation, and planned change. Corequisite: NGR 6504C.

NGR 6505L Role Synthesis in Advanced Psychiatric-Mental Health Nursing Practice (4). Advanced psychiatric/mental health nursing role with diverse population. Role developed through contractual agreements with faculty and mentors. Prerequisites: NGR 6503, NGR 6503L, NGR 6504C, NGR 6504L.

NGR 6538 Psychopharmacology for Advanced Practice Nursing (3). Background for neurobiological pharmacologic, psychiatric, and age dynamic factor to advanced practice nurse prescribing of psychiatric medications. Prerequisite: Advance to Semester III in graduate program.

NGR 6601C Advanced Family Health Nursing I (4). Study of Advanced Family Practice Nursing and specialization, expansion and advancement of evidence-based knowledge and skills fundamental to the role of the Family Nurse Practitioner in primary care. Prerequisites: NGR 5035C, NGR 6172, NGR 5141. Corequisite: NGR 6601L.

NGR 6601L Advanced Family Health Nursing Practice I (4). Clinical implementation of evidence-based knowledge

and skills required to the advanced family practice nurse in the prevention, diagnosis and management of acute health conditions in Primary Care. Corequisite: NGR 6601C.

NGR 6602C Advanced Family Health Nursing II (4). Continuing development of evidence-based knowledge and skills fundamental to the family nurse practitioner role in the care of clients and families experiencing chronic and multisystem illnesses. Prerequisites: NGR 6601C, NGR 6601L. Corequisite: NGR 6602L.

NGR 6602L Advanced Family Health Nursing Practice II (4). Clinical implementation of evidence-based knowledge and skills in the diagnosis and management of chronic and/or multi-system health conditions of clients and families in Primary Care. Corequisite: NGR 6602.

NGR 6619L Role Synthesis in Advanced Family Health Nursing Practice (4). Capstone course synthesizing role functions of the Family Advanced Practice Nurse with emphasis on professional practice issues and transition into the practice role. Prerequisites: NGR 6601C, NGR 6601L, NGR 6602C, NGR 6602L.

NGR 6700L* Role Synthesis in Advanced Adult Health Nursing Practice (4). Capstone course synthesizing role functions of the Adult Advanced Practice Nurse with emphasis on professional practice issues and transition into the practice role. Prerequisites: NGR 6201C, NGR 6201L, NGR 6202C, NGR 6202L.

NGR 6708C Classroom Teaching Strategies for Nursing (3). Experience/seminar in classroom teaching for prospective nurse educators. Focuses on strategies for effective course planning, delivery, and evaluation in the classroom with diverse students. Prerequisites: NGR 6713, ADE 5386, ADE 6360.

NGR 6710* Role Synthesis in Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6202L, or NGR 6504L, or NGR 6302L or NGR 6602L.

NGR 6712C* Advanced Nursing Administration III (4). Intensive practicum applying leadership, decision-making, management, and administration theories and concepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6726C, NGR 5871C, HAS 6176, PHC 6443, NGR 5723C, NGR 6724C.

NGR 6713 Curriculum Development in Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission, NGR 5110.

NGR 6714C Clinical Teaching Strategies for Nursing (3). Experience seminar in clinical teaching. Application of research-based literature and best practices in the development/implementation/evaluation of clinical education for nursing students. Prerequisites: NGR 6713, ADE 5386.

NGR 6715 Instructional Technology in Nursing and Health Sciences (2). Provides advanced technological knowledge, skills, and opportunity to develop strategies

using technology to improve and enhance student learning in variety of settings. Prerequisites: NGR 6713, ADE 5386.

NGR 6718 Testing and Evaluation in Nursing Education (3). Development of competency in concepts and measures of evaluation in nursing education. Prerequisite: Admission to the Certificate in Nursing Education.

NGR 6724C Advanced Nursing Administration II (4). Discusses financial issues surrounding nursing and the development and refinement of budgeting skills. Included are the nurse as entrepreneur, marketing, budgets and computers in financial management. Prerequisite: NGR 5723C (Adv. Nsg. Adm. I). Corequisite: HSA 6176.

NGR 6725 Issues and Strategies of Nursing Administration (3). Analysis of issues, principles, and concepts of nursing administration. Includes synthesis of behavioral and organizational theories with institutional goals in formulation of administrative strategies. Prerequisites: Graduate standing and departmental permission.

NGR 6726C Nursing Management and Continuous Quality Improvement (3). Role of nurse managers in developing and implementing continuous quality-improvement programs; implications of such programs on health care delivery. Includes role of middle management in personnel development and promoting nursing research in the clinical arena. Corequisites: NGR 6202L, or NGR 6504L, or NGR 6302L.

NGR 6800 Advanced Nursing Research Methods I: Design and Sampling (3). The first course in a 2-course sequence on the design and conduct of nursing research focuses on the conceptual and empirical basis, design, sampling, and ethical conduct of nursing research. Prerequisite: Departmental Permission.

NGR 6801 Advanced Nursing Research Methods II: Measurement and Dissemination (3). The second course in a 2-course sequence on the design and conduct of nursing research focuses on measurement in nursing research, data management and analysis, and dissemination of findings. Prerequisite: NGR 6800.

NGR 6812 Master's Research (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Prerequisites: HSC 6910 or NGR 5810.

NGR 6815 Qualitative Methods (3). Critical issues, theoretical and practical applications for conducting qualitative research explored as they relate to health, social service and public administration environments. Prerequisites: PHC 6704 or NGR 5810. Corequisite: NGR 6123.

NGR 6910C Research Project (3). Focus is on the development of competencies in scientific inquiry. Competencies are achieved through participation in ongoing research projects and a written report of the experience. Prerequisites: PHC 6718 or NGR 5810, NGR 5110.

NGR 6917 Grantsmanship I (1). The first course in a 3-course series on development and funding of programs of research focuses on successful research programs, planning a research trajectory, and obtaining predoctoral funding. Prerequisite: Departmental permission.

NGR 6918 Grantsmanship II (1). The second course in a 3-course series on development and funding of programs of research focuses on refinement of student trajectories, and grantsmanship for small research grant funding. Prerequisite: Departmental permission.

NGR 6919 Grantsmanship III (1). The third course in a 3-course series on development and funding of programs of research focuses on grantsmanship for major research funding targeted to federal and major foundation sources. Prerequisite: Departmental permission.

NGR 6939C NSG Management of At-Risk Populations (6). Intensive study of the advanced nursing management of at-risk populations, focusing on the elderly, persons with HIV/AIDS, survivors of domestic violence, substance abusers, and uninsured persons. Prerequisites: Departmental permit. Corequisites: NGR 6601L/NGR 6201L.

NGR 6970 Master's Thesis I (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Completion of a research project for non-thesis students. Prerequisite: NGR 5810. Corequisites: NGR 6202L or NGR 6504L or NGR 6302L.

NGR 6971 Master's Thesis II (3). Implementation through completion of student's research thesis proposal. Prerequisite: NGR 6970.

NGR 7736 Academic Health Care and Political Systems: Function, Structure Leadership and Survival. (3). Analyzes purpose, structure, function, challenges, politics of academic, health care and political systems. Examines leadership roles, strategies for change and dealing with organizational politics. Departmental permission.

NGR 7830 Research in Health Care for Multicultural Diverse and Vulnerable Populations (3). The course focuses on research issues with multicultural, diverse, and vulnerable populations. Prerequisite: Departmental permission.

NGR 7873 Accessing, Managing and Packaging Information (3). Focuses on finding, obtaining, evaluating, managing, and disseminating information from the internet and other sources, and packaging information to convey a message and maximize the impact using current technology. Prerequisite: Departmental permission.

NGR 7980 Dissertation I (1). Provides an overview of the dissertation process within framework of completing the dissertation. Prerequisite: Admission to candidacy.

NGR 7981 Dissertation II (6-9). Development and writing of an original research project under the supervision of the major professor and dissertation committee. Prerequisite: Admission to dissertation candidacy.

OTH 5002 Occupation and Health (3). Concepts of purposeful activities, occupation, and health will be explored in relation to self and the OT profession.

OTH 5011 Theories and Practice of Occupational Therapy (3). The theoretical foundations of occupational therapy and issues affecting professional practice. (SS)

OTH 5162 Adaptation of Human Occupation (2). Through development of an understanding of the components and nuances of human occupation, students

will develop skills needed to promote optimal performance through simulation and adaptation of life tasks. (SS)

OTH 5162L Adaptation of Human Occupation Lab (1). Emphasis on analysis of activities and the integration of therapeutic activities and their physical, emotional, cognitive, and sociocultural implications for occupational performance. Prerequisite: Admission to graduate program. Corequisite: OTH 5162.

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation of client's workplace for the disabled. Prerequisites: Admission to program or permission of the instructor (occasional elective).

OTH 5202 Occupational Development: Infancy Throughout Adolescence (2). Occupation during infancy, childhood, and adolescence. Includes social, cultural, and environmental factors on occupational competence. (F)

OTH 5202L Occupational Development: Infancy Through Adolescence Lab (1). Laboratory to accompany OTH 5202, Occupational Development Throughout the Life Span. Corequisite: OTH 5202.

OTH 5203 Occupational Development: Adulthood and Aging (3). Exploration of occupational development from young adulthood through the geriatric years.

OTH 5213 Pediatric Seminar: School Based Occupational Therapy (3). Course designed to provide students with necessary skills and specific knowledge to practice occupational therapy effectively in the educational setting. One week fieldwork. Interdisciplinary classes with physical therapy. Prerequisite: Permission of the instructor.

OTH 5214 Occupational Therapist Role in Family Centered Care (3). Course designed to orient O.T. students to family-centered care issues, such as legislation, cultural issues, family systems and empowerment strategies, in order to prepare them for clinical practice. Prerequisite: Permission of the instructor.

OTH 5280 Role of Environment in Occupational Therapy (3). Assessing the influence of environmental factors on OT practice in specific field settings. Prerequisite: Admission to program.

OTH 5301 Adaptation of Human Occupation and Environment in Mental Health (2). Designed to prepare the student with the tools and knowledge needed for clinical reasoning in the selection of assessment and treatment of individuals with cognitive and neuropsychiatric disorders. Prerequisite: Admission to graduate program. Corequisites: OTH 5843, OTH 5301L.

OTH 5301L Adaptation of Human Occupation and Environment in Mental Health Lab (1). Administration of assessments and treatment planning for individuals with cognitive and neuropsychiatric disorders. Prerequisite: Admission to Graduate Program. Corequisites: OTH 5301, OTH 5843.

OTH 5324 Clinical Intervention for Persons with Neuropsychiatric & Cognitive Disorders (4). Develops clinical reasoning abilities in the selection of assessment and treatment strategies for individuals with cognitive and neuropsychiatric disorders. (S)

OTH 5326 Psychiatric O.T.: Contemporary Theory and Practice (3). Examination of contemporary knowledge

relevant to the theory and practice of O.T. in psychiatry. Prerequisites: Admission to Program or permission of the instructor.

OTH 5345 Occupational Therapy Program Development in Psychiatry (3). Seminar discussion and practical experience in OT programming in psychiatry. Prerequisites: Admission to program or permission of the instructor.

OTH 5360 Social Justice Issues for Health Professionals (3). An examination of relevant social justice related theories for health professionals leading to an understanding of how therapists can empower persons with disabilities to navigate the health system.

OTH 5405C Analysis of Therapeutic Procedures in Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theory based assessment problem identification and treatment for the physically disabled adult.

OTH 5406 Sensory Problems and Therapeutic Implications (3). An in-depth study of sensory problems and the implications for therapy. A variety of patient populations and clinical applications will be discussed. Prerequisites: Graduate standing or permission of the instructor (occasional elective).

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisites: Admission to the program or permission of the instructor (occasional elective).

OTH 5414 Analysis & Adaptation in Human Motion (3). Presents anatomical, physiological, and biomechanical principles of human motion & biomechanical frame of reference in adaption with biomechanical problems. (F)

OTH 5414L Analysis & Adaptation in Human Motion Lab (1). Laboratory to accompany OTH 5414, Analysis & Adaptation of Human Motion in OT. (F)

OTH 5427 Neurorehabilitation Approaches in OT (3). OT evaluation procedures and treatment planning for patients with CNS dysfunction. Corequisite: OTH 5427L.

OTH 5427L Neurorehabilitation Approaches in OT Lab (1). Laboratory to accompany OTH 5427, Neurorehabilitation approaches in OT. Corequisite: OTH 5427.

OTH 5429 Biomechanics & Rehabilitative Approaches in OT (3). Biomechanics and rehabilitative frames of reference as they focus on body parts and occupational performance.

OTH 5429L Biomechanics & Rehabilitative Approaches in OT Lab (1). Lab to accompany OTH 5429 Biomechanics & Rehabilitative Approaches.

OTH 5430 Adaptation of Human Occupation and Environment for Musculoskeletal Disorders I (2). First of a two-part course. Application of occupational therapy evaluation and interventions for individuals with musculoskeletal disorders to prepare clients for the engagement in occupation. Prerequisites: Admission to graduate program, OTH 5414, OTH 5414L. Corequisite: OTH 5430L.

OTH 5430L Adaptation of Human Occupation and Environment for Musculoskeletal Disorders I Lab (1). Experience in client evaluation and treatment planning. Includes a four week Level I fieldwork experiences. Prerequisites: Admission to graduate program, OTH 5414, OTH 5414L. Corequisite: OTH 5430.

OTH 5438 Adaptation of Human Occupation and Environment for Neuromotor Disorder II (3). Course covers evaluation and intervention principles of selected practice models as they relate to neuromotor disorders and their impact on the occupational performance of individuals. Prerequisite: Admission to graduate program. Corequisite: OTH 5438L.

OTH 5438L Adaptation of Human Occupation and Environment of Neuromotor Disorders II Lab (1). Students will apply occupational therapy evaluation and intervention principles to adults with neuromotor dysfunction. Prerequisite: Admission to graduate program. Corequisite: OTH 5438.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3). In depth instruction in approaches to the neurologically impaired patient. Emphasis will be on dysfunction due to stroke or head injury. Prerequisites: OTH 4422 or equivalent.

OTH 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit. Prerequisite: Majors only.

OTH 5505 Pediatric Health and Dysfunction in Occupational Therapy (3). Investigation of pediatric health and dysfunction issues encountered by Occupational Therapists. Corequisite: OTH 5505L.

OTH 5505L Pediatric Health and Dysfunction in OT Lab (1). Laboratory to accompany OTH 5505, Pediatric Health and Dysfunction in Occupational Therapy. Corequisite: OTH 5505.

OTH 5524 Adaptation of Human Occupation and Environment for Neuromotor Disorders I (3). Course introduces developmental and neuromotor theories as they are applied to the pediatric populations and provide the student with frames of reference for pediatric occupational therapy practice. Prerequisite: Admission to graduate program. Corequisite: OTH 5524L.

OTH 5524L Adaptation of Human Occupation and Environment for Neuromotor Disorders I Lab (1). Students will apply theoretical knowledge to clinical problems in occupational therapy evaluation and treatment of children with neuromotor and/or sensorimotor disorders. Prerequisite: Admission to graduate program. Corequisite: OTH 5524.

OTH 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTH 5603 Role of Occupational Therapist in Family Centered Care of Elderly (3). Issues related to care giving of elder and caregivers including autonomy, cultural influences and family systems. Prerequisite: Permission of the instructor.

OTH 5610 Foundations in Gerontology for Health Professions (3). Implication for health professions of the

biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

OTH 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly. Prerequisites: Aging course or work experience with elderly, permission of the instructor.

OTH 5630 OT Assessment of the Elderly (3). Study of assessment techniques appropriate for OT evaluation of the elderly. Prerequisite: Admission to program.

OTH 5725 Infusing Occupation into Community Based Practice (3). The evaluation and promotion of community based programming to serve non-traditional client populations.

OTH 5751 Rehabilitation Seminar in Occupational Therapy (3). A seminar designed to gain an understanding of OT clinical practice areas in rehabilitation. Various clinicians will present their perspectives of organizational structure, populations served, evaluation and treatment approaches. Prerequisite: Permission of the instructor.

OTH 5760 Current Research in Occupational Therapy (3). Review of statistical concepts and research procedures in the clinical setting, with in-depth study of the current status of research in occupational therapy. (S)

OTH 5764 Research in a Clinical Specialty (3). Participation in ongoing research of faculty members in clinical specialty area. Prerequisite: Permission of the instructor. (SS)

OTH 5765 Research in Clinical Practice (3). Students identify a research topic and questions based on observation of clinical problems during field visits.

OTH 5805 Service Learning in Health (3). Student's learning is centered on a community service experience which meets specific principles of service learning. Prerequisites: Admission to graduate study in OT. (Other graduate students or graduate certificate students in aging admitted by permission of the instructor.)

OTH 5840 Fieldwork Level I (3). Practicum fieldwork experience in an approved setting.

OTH 5843 Psychosocial Level I Fieldwork (2). This fieldwork course provides the student with the experience needed for occupational therapy assessment and treatment of individuals with cognitive and neuropsychiatric disorders. Prerequisites: Admission to graduate program and OTH 5162. Corequisite: OTH 5301 and OTH 5301L.

OTH 5845 Fieldwork Level II (6-12). Three-month internship in an approved setting. Prerequisite: Completion of didactic coursework.

OTH 5846 Fieldwork Level II (6-12). Three-month internship in an approved setting. Prerequisite: Completion of didactic coursework.

OTH 5849 Fieldwork Experience (1-20). Internship in a specialized treatment setting. Prerequisite: Completion of didactic coursework. OTH 5905 Independent Study (Variable Credit). (F,S,SS)

OTH 5934 Evaluation and Treatment of Hand Dysfunction (3). Seminar in current issues related to the

assessment and treatment of common injuries of the hand (occasional elective).

OTH 5938 O.T. Theoretical Perspectives in Health Therapy (3). This seminar course is designed to examine the OT's role in the prevention of both physical and mental diseases. It will demonstrate and discuss how OT foundational under-pinnings provide the tools therapists need to guide patients and clients toward lifestyle behaviors which can prevent or delay disease onset and foster functional adaptation. Prerequisite: Permission of the instructor.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6106 The Role of Occupational Therapy and Assistive Technology (3). This course provides the student with in-depth information about assessment for AT and recommendation of appropriate equipment.

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program. (F)

OTH 6265 Measurement and Assessment in Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisites: Admission to program or permission of the instructor.

OTH 6281 Cultural and International Issues in Occupational Therapy (3). Exploration to the cultural, socioeconomic, and ethnic variables that impact occupational therapy interventions. Prerequisite: Admission to graduate program.

OTH 6431 Adaptation of Human Occupation and Environment for Musculoskeletal Disorders II (2). Using the biomechanical and rehabilitative practice models, students will design appropriate occupational therapy interventions for individuals with musculoskeletal and connective tissue disorders. Prerequisites: OTH 5414, OTH 5414L. Corequisite: OTH 6431L.

OTH 6431L Adaptation of Human Occupation and Environment for Musculoskeletal Disorders II Lab (1). Lab will provide students with the hands-on experience needed to evaluate and design occupational therapy intervention plans for individuals with musculoskeletal disorders. Prerequisite: Admission to graduate program. Corequisite: OTH 6431.

OTH 6507 Occupational Therapy for Occupationally Dysfunctional Children & Adolescents (3). Exploration of factors leading to successful adaptation to occupational roles, are explored with particular emphasis on the relationship between these factors and Occupational Therapy theory. Prerequisite: Permission of the instructor.

OTH 6538 Advanced Methods in Pediatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 6542 Role of the Occupational Therapist in the School System: A Consultation Model (3). Course introduces consultation as a viable service provision option to enable occupational therapists to create more effective living and learning environments on behalf of children. Prerequisite: Permission of the instructor.

OTH 6548 Advanced Methods in Pediatric Occupational Therapy (3). Advanced application of theory and research in occupational therapy. Includes neurodevelopmental treatment approaches, neonates through adolescents. Prerequisite: OTH 6538.

OTH 6706 Occupational Therapy Management (3). Study of administrative issues in OT in relation to licensing, certification, documentation, supervision, and professional roles.

OTH 6772 Evidence Based Practice and Critical Appraisal (3). An in-depth investigation of the tools and resources for systematically locating and reviewing research evidence.

OTH 6937 ADA Workplace Accommodations of Persons with Disabilities (3). Interdisciplinary course designed to bring together students of both rehabilitation and business/management disciplines to develop strategies to implement the Title I-Workplace provision of the Americans with Disabilities Act (ADA).

OTH 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project.

OTH 6970 Master's Thesis (1-6). Supervised research on a research project submitted in partial fulfillment of Master's degree requirement. Prerequisite: Permission of major professor. (F,S,SS)

OTH 6972 Master's Project Development (3). Development and planning of Master's Project.

OTH 6973 Master's Project Implementation (3). Implementation and completion of the Master's Project. Prerequisite: OTH 6972.

PET 5312C Orthopedic Assessment II – Upper Extremity (4). Introduction to common types of orthopedic injuries and/or dysfunctions that occur to the upper extremity during physical activity and the techniques of injury prevention, recognition, and evaluation. Corequisite: PET 5678.

PET 5405 Administration and Professionalism in Athletic Training (3). Introduction to the concepts of legal liability, budgeting, inventory, facilities design and general administration of the athletic training room. Prerequisites: PET 5609, PET 5672L, PET 5608, and PET 5624. Corequisite: PET 5673L.

PET 5608 Diseases and Disabilities in the Physically Active (3). Introduction to the clinical signs and symptoms of general medical conditions that will present to the Certified Athletic Trainer. Prerequisites: PET 5312C, APK 6118C, and PET 5678. Corequisite: PET 5672L.

PET 5609 Orthopedic Assessment III – Head, Spine, and Trunk (4). Introduction to common types of orthopedic injuries and/or dysfunctions that occur to the head, spine, and trunk during physical activity and the techniques of injury prevention, recognition, and

evaluation. Prerequisite: PET 5312C. Corequisite: PET 5672L.

PET 5620C Principles of Athletic Training with Lab (4). Introduction to principles of risk management and injury prevention. Topics include the athletic training profession, fitness programs, environmental risk factors, taping techniques and nutrition. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: PET 5662, PET 5658.

PET 5624 Intervention and Referral for the Physically Active (3). Introduction to the intervention and referral processes for the physically active and sport psychology. Prerequisites: PET 5312C, PET APK 6118C, and PET 5678. Corequisite: PET 5672L.

PET 5625 Sports Medicine (3). The class includes topics related to the prevention and treatment of non-traumatic athletic injuries. Practical applications in laboratory experiences are required. Prerequisite Exercise Physiology. (S)

PET 5633C Orthopedic Assessment I - Lower Extremity with Lab (4). Introduction to orthopedic injuries and/or dysfunctions that occur to the lower extremity during physical activity and the application of techniques of orthopedic assessment. Prerequisites: PET 5260C, PET 5662, PET 5658. Corequisites: PET 5635C, PET 5668L.

PET 5635C Therapeutic Modalities with Lab (4). Introduction to basic principles of theory and application of various therapeutic modalities encountered in athletic training practice and the application of the principles in the lab setting. Prerequisites: PET 5620C, PET 5662, PET 5658. Corequisites: PET 5633C, PET 5668L.

PET 5658 Clinical Education Seminar in Athletic Training (1). Addresses issues related to the clinical setting and prepares the student for the clinical component of the Athletic Training Education Program while completing 30 clinical experience hours. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: PET 5662, PET 5620C.

PET 5662 Management of Medical Emergencies (3). Students will learn the basic principles of managing medical emergencies utilizing immediate first aid techniques. American Red Cross certification in CPR and first aid will be obtained. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: PET 5620C, PET 5658.

PET 5668L Clinical Education I (3). Designed to allow students to apply athletic training techniques associated with the principles of athletic training, management of medical emergencies, and clinical education. Prerequisites: PET 5620C, PET 5662, PET 5658. Corequisites: PET 5633C, PET 5635C.

PET 5672L Clinical Education III (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the upper extremity and rehabilitation. Prerequisites: PET 5312C, APK 6118C, PET 5678. Corequisites: PET 5609, PET 5608, and PET 5624.

PET 5673L Clinical Education IV (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the head, spine, and trunk,

intervention and referral, and diseases and disabilities. Prerequisites: PET 5609, PET 5672L, PET 5608, and PET 5624. Corequisite: PET 5405.

PET 5678 Clinical Education II (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the lower extremity and therapeutic modalities. Corequisites: PET 5312C, APK 6118C.

PET 5716 Analysis and Observation of Teaching in Physical Education (3). This course analyzes the teaching-learning process in physical education. The emphasis is on systematic observation instruments and guidelines for systematic development of instructional skills. (F)

PET 6307 Master of Science Research in Athletic Training II (3). To introduce students to the basic aspect of conducting research. Topics include Methodology, data collection, writing results and discussion for publication. Prerequisite: PET 6535.

PET 6311 Pharmacology and Diagnostic Imaging in Athletic Training (3). Introduces students to the principles of pharmacology and diagnostic imaging and their relationships to the Certified Athletic Trainer. Prerequisite: PET 5405, PET 6535, PET 5673L. Corequisites: PET 6307, PET 6675.

PET 6406L Physical Assessment, Measurement, and Evaluation Workshop (1-3). The workshop will provide the student with a working knowledge and basic theory in physical assessment, measurement, and evaluation laboratory teaching and develop skills associated with each. Prerequisite: Permission of instructor.

PET 6535 Master of Science Research in Athletic Training (1-3). To introduce students to the basic concepts of reading, evaluating, and writing research. Topics include problem solving, literature review, and types of research. Prerequisites: EDF 5481 or equivalent and PET 6597 – Survey of Research.

PET 6675 Clinical Education V (3). Designed to allow students to apply the athletic training techniques associated with administration and professionalism in allied health care in selected clinical education settings. Prerequisites: PET 5405, PET 5673L.

PHT 5017 Technology and Communication Management for Physical Therapists (3). This course integrates technology, research and education for physical therapists. The course consists of practical projects using the Internet, software applications, and web-based applications.

PHT 5027 Clinical Education Seminar (1). This course is designed to address prerequisite clinical education issues that historically contribute to the overall success in the clinical internships. Topics range from use of the evaluation tool to taxonomies of learning. Prerequisites: Admission to Professional PT Curriculum or permission of department.

PHT 5045 Applied Educational Theory in Physical Therapy (3). The application of teaching and learning principles to Physical Therapy patient education, student clinical education, and continuing education. A variety of teaching methodologies will be practiced by participants.

Prerequisites: Admission to PT Professional Program or permission of department.

PHT 5174 Analysis of Movement and Function (3). The course is designed to give physical and/or occupational therapy students the cognitive skills necessary to analyze human movement in the context of physical therapy practice. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5174L.

PHT 5174L Analysis of Movement and Function Lab (1). The course is designed to give physical and occupational therapy students the psychomotor skills necessary to analyze human movement in the context of PT practice. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5174.

PHT 5180 Musculoskeletal Diagnosis and Management I (3). This course is designed to prepare the student in the area of physical therapy related musculoskeletal diagnosis and treatment with focus on upper extremities. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5180L.

PHT 5180L Musculoskeletal Diagnosis and Management I Lab (1). This is the laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5180.

PHT 5181 Musculoskeletal Diagnosis and Management II (3). This is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis treatment with focus on lower extremities. Prerequisites: PHT 5180, PHT 5180L, PHT 6341, PHT 6341L. Corequisite: PHT 5181L.

PHT 5181L Musculoskeletal Diagnosis and Management II Lab (1). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisites: PHT 5180, PHT 5180L, PHT 6341, PHT 6341L. Corequisite: PHT 5181.

PHT 5182 Musculoskeletal Diagnosis and Management III (3). This course is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis and treatment with focus on the spine. Prerequisites: PHT 5181 and PHT 5181L. Corequisite: PHT 5182L.

PHT 5182L Musculoskeletal Diagnosis and Management III Lab (2). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis specific to the spine. Prerequisites: PHT 5181 and PHT 5181L. Corequisite: PHT 5182.

PHT 5205 Clinical Skills (3). Utilizing a seminar format, this course will provide the student with the theory and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisites: PHT 5174 and PHT 5174L.

PHT 5205L Clinical Skills Lab (1). Utilizing a laboratory format, this course will provide the student with the theory

and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisite: PHT 5205, Clinical Skills.

PHT 5218 Physical Agent Modalities for Non-Physical Therapy Majors (1). The course is an introduction to physical agent modalities in rehabilitation for students and practitioners of occupational therapy, athletic training, massage therapy or other health care professions.

PHT 5254 Disability Awareness Through Aquatic Sports (3). Designed for disabled and non-disabled persons to learn lifelong sports in an interactive format cumulating in weekend sailing and camping trip. Participants will learn the difficulties and methods to facilitate sports for disabled persons.

PHT 5323C Pediatric Physical Therapy (3). Entry-level, skills and competencies in pediatrics, including motor development; diagnosis, examination and intervention; and family, health education, and service delivery issues. Prerequisites: Admission into the graduate program in PT or permission on instructor.

PHT 5328 Advanced Pediatric Physical Therapy Assessment (3). Analysis of assessment tools in relation to treatment. Competence in administration of appropriate tools will be required at end of course. Prerequisites: Either STA 5126 or STA 6166 and permission of the instructor.

PHT 5335 Physical Therapy in Obstetrics/Gynecology (3). This course will explore the role of the therapist in the field of obstetrics and provide an introduction to gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisite: Permission of the instructor.

PHT 5336 Theories in Cardiopulmonary Rehabilitation (3). This course is designed to provide students with applied theory in the clinical and physical therapy management of medical and surgical cardiac and respiratory conditions. Prerequisite: Permission of the instructor.

PHT 5373 Advanced Therapy Assessment of the Elderly (3). The study of assessment tools used in geriatric rehabilitation in relation to appropriate intervention strategies and research findings. Prerequisites: Appropriate adult motor development course/permission of major advisor.

PHT 5375 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

PHT 5504 Service Learning in Physical Therapy (1-3). The course includes a brief introduction to community service in Physical Therapy, an opportunity to assist professionals to deliver community-based physical therapy services, and the preparation of case studies based on the students' experiences. Prerequisites: Advanced standing in the undergraduate PT program or admission to Graduate PT program.

PHT 5505C Physical Therapy Constructs in Health and Wellness (3). Covers elements of Physical Therapy related prevention, screening, health and wellness for individuals, schools, and communities.

PHT 5515 Therapeutic Services for Physically Impaired and Mentally Retarded Students (3). Lecture, lab, and group work to develop skills of education and therapy professionals for implementation with disabled children in schools. Prerequisite: Permission of major advisor or instructor.

PHT 5523 Dimensions of Professional Practice Seminar I (3). This is the first in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: Admission to Professional PT Curriculum.

PHT 5524 Dimensions of Professional Practice Seminar II (3). This is the second in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5523.

PHT 5525 Dimensions of Professional Practice Seminar III (3). This is the third in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5524.

PHT 5639 Physical Therapy Administrative Techniques and Methods (3). Provides an in-depth view of the health care industry and its relationship to the P.T. profession. Management techniques in all areas will be presented with emphasis on planning and financial management.

PHT 5805 Clinical Internship I (5). This is the first in a sequence of 4 supervised full-time clinical internships designed to offer the student experiences in patient evaluation and care with emphasis on musculoskeletal dysfunction. Prerequisite: PHT 5960.

PHT 5815 Clerkship in Physical Therapy (2). Two-week full-time clinical experience combined with independent study of question or issue in clinical Physical Therapy. Prerequisite: Permission of major advisor.

PHT 5823 Internship (3). Supervised, full-time clinical experience, designed to offer the student experience in patient evaluation and care, particularly in the areas of rehabilitation and neurorehabilitation.

PHT 5960 Comprehensive Exam I (1). This is the first of two comprehensive examinations that cover all previously completed coursework and is required for continued progression in the curriculum. Prerequisites: All Fall and Spring Semester Courses-Year I.

PHT 6009 Differential Diagnosis in Physical Therapy (3). This course is designed to enable the physical therapy student to engage in the diagnostic process to establish differential diagnoses for patients across the life span. Prerequisite: PHT 4300.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic system, or both. Prerequisite: Permission of major advisor.

PHT 6145 Motor Development: Adult Through Geriatrics (3). A study of motor development of the adult

through old age. Application of developmental principles to physical therapy practice and research. Prerequisite: Permission of major advisor.

PHT 6163 Neurological Diagnosis and Management I (3). This is the first in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 5960 or permission of instructor. Corequisite: PHT 6163L.

PHT 6163L Neurological Diagnosis and Management I Lab (1). This is the first in a sequence of three (3) laboratory courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 5960 or permission of instructor. Corequisite: PHT 6163.

PHT 6164 Neurological Diagnosis and Management II (3). This is the second in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6163, PHT 6163L. Corequisite: PHT 6164L.

PHT 6164L Neurological Diagnosis and Management II Lab (1). This is the second in a sequence of three (3) laboratory courses designed to prepare the student for psychomotor competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6163, PHT 6163L. Corequisite: PHT 6164.

PHT 6165 Applied Clinical Neuroanatomy (3). Examines correlation of sites of pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of treatment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6169 Neurological Diagnosis and Management III (3). This is the third in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164, PHT 6164L. Corequisite: PHT 6169L.

PHT 6169L Neurological Diagnosis and Management III Lab (1). This is the third in a sequence of three (3) laboratory courses designed to prepare the student for psychomotor competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164, PHT 6164L. Corequisite: PHT 6169.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6239 Developmental Disabilities in Adulthood (3). A study of adults with developmental disabilities; including aspects of societal perspectives, political and public policy regarding the handicapped, and current theories in treatment of the handicapped adult population. Prerequisite: Permission of major advisor and instructor.

PHT 6325 Advanced Clinical Pediatric Physical Therapy (3). The study of theory, treatment and current

clinical research in pediatric physical therapy practice. Prerequisites: Permission of major advisor and PHT 5320.

PHT 6326 Physical Therapy for At-Risk Infants (3). This course will explore current PT practice and research for at-risk infants in NICU, NCCU, and follow-up programs. Includes aspects of physiological and behavioral monitoring indicators for physical therapy intervention. Prerequisite: PT graduate students.

PHT 6341 Diagnosis and Management of Disease (3). Covers Physical Therapy implications of disease processes, conditions and systemic disorders throughout the lifespan. Prerequisite: All Fall Semester Courses-Year I. Corequisite: PHT 6341L.

PHT 6341L Diagnosis and Management of Disease Lab (1). The practicum portion of PHT 6341 that covers physical therapy intervention in disease processes, conditions, and systemic disorders through-out the life span. Prerequisite: All Fall Semester Courses-Year I. Corequisite: PHT 6341.

PHT 6353 Principles of Diagnostics and Pharmacology in Physical Therapy (3). Topics include interpretation of medical laboratory tests results, diagnostics imaging, and pharmacology with a focus on effects, side effects, and toxicity in relation to PT interventions. Prerequisites: PHT 5182, PHT 6381, PHT 6169, PHT 6341.

PHT 6365 Theories in Sports Physical Therapy (3). Study and exploration of relevant issues in sports physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6381 Diagnosis and Management of Cardiopulmonary Systems (3). This lecture course covers the elements of patient and client management provided by physical therapists with anticipated goals of preferred practice patterns in cardiopulmonary care. Prerequisites: PHT 5205 and PHT 5205L. Corequisite: PHT 6381L.

PHT 6381L Diagnosis and Management of Cardiopulmonary Systems Lab (1). This laboratory course covers the elements of patient and client management provided by physical therapists with anticipated goals of preferred practice patterns in cardiopulmonary care. Prerequisites: PHT 5205 and PHT 5205L. Corequisite: PHT 6381.

PHT 6401 Client-Centered Rehabilitation (3). Utilizes small and large group discussion, multimedia presentations, readings and projects to explore issues of communication, cultural diversity and client-centered rehabilitation.

PHT 6526 Dimensions of Professional Practice Seminar IV (3). This is the fourth in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5525.

PHT 6547 Case Management in Physical Therapy (1). Comprehensive physical therapy patient care management and practice review cumulating in a simulated physical therapy licensure examination. Prerequisite: PHT 6705 (Long Term Rehabilitation). Corequisite: PHT 6970 (DPT Project).

PHT 6552 Private Practice Seminar for Physical Therapists (3). This course analyzes various practice models and includes presentations from private practitioners and community business experts.

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6705 Long Term Rehabilitation for Persons with Chronic Disease and Disability (3). Applying long term rehabilitation for persons with chronic disease and disability with focus on the continuum of fitness, health and rehabilitation throughout the life span.

PHT 6706 Information and Communication Technology in Rehabilitation (3). An introductory course that focuses on computer rehabilitation technology for clinical practices, research and education, and devices that assist the quality of patient activities. Prerequisite: Student should have a basic understanding of personal computers.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines theoretical bases of evaluation and treatment of the neuro-patient; includes exploration of the relationship of motor control and motor learning to current neurologic rehabilitation. Prerequisite: Permission of major advisor.

PHT 6725 Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions. Prerequisite: Permission of major advisor.

PHT 6746C Complementary Therapies for Rehabilitation Professionals (3). Complementary PT will describe and explain how various complementary therapies will be introduced and incorporated into rehabilitation programs. Practical application and safety will be emphasized. Prerequisites: PHT 5205, PHT 5205L, PHT 5505.

PHT 6817 Clinical Internship II (5). This is the second in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with general medical and surgical clients. Prerequisites: PHT 5960, PHT 6164, PHT 6164L.

PHT 6824 Internship I (3). Supervised full-time clinical experience with emphasis on: evidence-based practice; clinical decision making; administration; educational

activities; outcomes assessment; differential diagnosis; and consultation. Prerequisite: PHT 6009.

PHT 6825 Internship II (3). Continuation of PHT 6824, Internship I. Prerequisite: PHT 6824.

PHT 6826 Internship III (3). Continuation of PHT 6825, Internship II. Prerequisite: PHT 6825.

PHT 6827 Clinical Internship III (5). This is the third in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with the neurologically involved client. Prerequisite: PHT 6961.

PHT 6828 Clinical Internship IV (5). This is the final in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient care in a specialty setting, including but not limited to pediatrics, SCIP, burns, etc. Prerequisite: PHT 6961.

PHT 6845 Resources and Skills for the PT/PI student (3). This course focuses on the interdisciplinary team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Corequisites: Graduate OT, PT, or Education students.

PHT 6905 Independent Study (1-3). Individually determined, research-oriented, in-depth study of a physical therapy issue. An independent study contract must be approved by the instructor. Prerequisites: Permission of major advisor and instructor. Must be fully admitted to the graduate program.

PHT 6961 Comprehensive Exam II (1). The second comprehensive examination covering all previously completed coursework and is required for continued progression in the curriculum. Prerequisites: All Fall and Spring Semester Courses-Year II.

PHT 6970 DPT Project (3). An individually supervised project for physical therapy students.

PHT 6971 Master's Thesis (3). Supervised research which demonstrates the application of analytical, conceptual and technical skills to a specific physical therapy problem. Prerequisite: Permission of major advisor.

SPA 4002 Survey of Communication Disorders (3). Theory, evaluation, and therapeutic procedures with disorders of speech and language, including but not limited to, articulation disorders, childhood language disorders, aphasia, voice disorders, and disorders of fluency. Prerequisite: Permission of the instructor.

SPA 4004 Introduction to Speech and Language Development and Disorders (3). The study of normal speech and language acquisition and associated disorders. Prerequisite: Permission of the instructor.

SPA 4011 Speech and Hearing Science (3). Study of speech and hearing physiology, acoustic phonetics, and speech perception. Prerequisite: Permission of the instructor.

SPA 4030 Introduction to Audiology (3). Principles of auditory reception; the hearing mechanism; problems involved in measuring, evaluating, and conserving hearing. Prerequisite: Permission of the instructor.

SPA 4050 Clinical Management in Communication Disorders (3). The course focuses on procedures for working in various practicum settings. It includes observation of evaluation and treatment sessions. Prerequisite: Permission of the instructor.

SPA 4101 Anatomy and Physiology of Speech and Hearing (3). Anatomy and physiology of the speech and hearing mechanisms. Including nomenclature, respiration, phonation, articulation/resonance, the nervous system, and the auditory system. Prerequisite: Permission of the instructor.

SPA 4101L Anatomy and Physiology of Speech and Hearing Lab (1). Lab to accompany SPA 4101. Prerequisite: Permission of instructor. Corequisite: SPA 4101.

SPA 4112 Principles of Phonetics (3). Principles of phonetics and their application to speech. Classification of speech sounds according to various systems including, but not limited to, manner and place, distinctive features, and phonological processes. Phonetic transcription utilizing the International Phonetic Alphabet. Prerequisite: Permission of the instructor.

SPA 5107 Neurological Bases of Communication (3). The anatomical and physiological aspects of the central and peripheral nervous system as they pertain to communication acquisition and disorders. Prerequisite: Permission of the instructor.

SPA 5204 Phonological Disorders (3). An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them. Prerequisite: Permission of the instructor.

SPA 5216 Vocal, Velopharyngeal, and Fluency Disorders (3). Study of etiology, symptoms, and treatment strategies for a variety of vocal, craniofacial and fluency disorders. Prerequisite: Permission of the instructor.

SPA 5402 Language Learning in Preschool Children (3). Presentation of the linguistic development in children ages 0-5 years as well as the delays and disorders associated with language. Prerequisite: Permission of the instructor.

SPA 5403 Language Learning in School-Aged Children (3). Overview and evaluation of the language skills of preschool and school aged children including metalinguistic and discourse development. Prerequisite: SPA 5402 and permission of the instructor.

SPA 5500 Basic Clinical Practicum (3). Supervised practice with representative speech and language problems in the school settings. Prerequisites: SPA 5204, SPA 5402, SPA 5403, SPA 5553.

SPA 5502 Intermediate Clinical Practicum (3). Supervised practice with communication problems in outpatient settings, private practices, rehabilitation. Prerequisite: SPA 5500.

SPA 5553 Differential Diagnosis of Communicative Disorders (3). The administration, evaluation and reporting of diagnostic tests and procedures used in assessment of speech and language disorders. Prerequisite: Permission of the instructor.

SPA 5805 Research Methodology in Communication Disorders (3). Research design, statistical analysis (descriptive and inferential) and dissemination of experimental data, with an emphasis on clinical research. Legal/ethical and cultural consideration in research design and implementation will also be addressed. Prerequisite: Permission of the instructor.

SPA 6005 Assessment & Treatment of the Bilingual Child with Communication Disorders (3). Assessment and treatment of normal and atypical language development across cultures. Prerequisite: Permission of the instructor.

SPA 6232 Neuromotor Communication Disorders and Augmentative Communication (3). Study of medical, physical, occupational, speech, language, and hearing problems of the neuromotorically impaired client, including assessment and intervention strategies for augmentative communication. Prerequisites: SPA 5107 and Permission of the instructor.

SPA 6322 Aural Habilitation and Rehabilitation (3). Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training and language for the hearing impaired. Prerequisite: Permission of the instructor.

SPA 6406 Dual Language Acquisition and Disorders (3). Development of normal and atypical language in speakers of more than one language. Prerequisite: Permission of the instructor.

SPA 6410 Aphasia and Related Disorders (3). Consideration of the neurological and psychological aspects of aphasia and related approaches are discussed and evaluated. Prerequisites: SPA 5107 and Permission of the instructor.

SPA 6479 Communications Disorders and Aging in a Bilingual Society (3). Survey of types and characteristics of bilingualism and normal and atypical speech and language changes associated with aging. Prerequisite: Permission of the instructor.

SPA 6505 Advanced Clinical Practicum (3). Supervised practice with severe communication problems in area hospitals and long term care facilities. Prerequisite: SPA 5502.

SPA 6565 Dysphagia (3). Information and training in the evaluation and treatment of swallowing disorders. Prerequisite: Permission of the instructor.

SPA 6930 Master's Project (1-6). This course provides the student with an opportunity to explore in-depth a specific topic of interest in speech pathology. Prerequisite: Permission of the instructor.

SPA 6938 Topics in Speech Pathology (1-3). This course is intended to give students information about topical issues in the field of Speech Language Pathology. Prerequisite: Permission of instructor.

SPA 6971 Master's Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of the Master's degree requirement. Prerequisite: Permission of the instructor.

*All students must provide evidence of personal professional liability insurance prior to registering for any clinical nursing courses.