

Course Descriptions

Definition of Prefixes

ATR-Athletic Training; GEY-Gerontology; HSA-Health Services Administration; 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.

ATR 5105C Principles of Athletic Training with Lab (4). Introduction to principles of athletic training, including the athletic training profession, risk management, the evaluation process, injury prevention, immediate care, and medical documentation. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5115C, ATR 5805.

ATR 5115C Management of Medical Emergencies (3). Introduction to the principles of evaluating and managing medical emergencies and application of associated clinical skills. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5105C, ATR 5805. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5105C, ATR 5805.

ATR 5217C Clinical Evaluation and Diagnosis in Athletic Training I (4). Clinical evaluation and diagnosis of orthopedic injuries and/or dysfunctions that occur to the lower extremity during physical activity. Prerequisites: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5305C, ATR 5815L.

ATR 5218C 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. Prerequisites: ATR 5217C, ATR 5305C, ATR 5815L. Corequisite: ATR 5316C.

ATR 5219C 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. Prerequisites: ATR 5825L and ATR 5316C. Corequisite: ATR 5435.

ATR 5305C Therapeutic Interventions in Athletic Training I (4). Introduction to therapeutic modalities and rehabilitation techniques encountered in athletic training practice for acute injuries, including application of associated clinical skills. Prerequisites: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5217C, ATR 5815L.

ATR 5316C 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: ATR 5218C.

ATR 5435 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: ATR 5218C, ATR 5316C, and ATR 5825L. Corequisite: ATR 5219C.

ATR 5517 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: ATR 5219C, ATR 5835L, ATR 5435. Corequisite: ATR 6620.

ATR 5805 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 Program while completing clinical experience hours. Prerequisite: Admittance into Athletic Training Program.

ATR 5815L 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: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5217C, ATR 5305C.

ATR 5825L Clinical Education II (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the lower extremity and therapeutic modalities. Prerequisites: ATR 5217C, ATR 5305C, ATR 5815L. Corequisites: ATR 5218C, ATR 5316C.

ATR 5835L Clinical Education III (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the upper extremity and rehabilitation. Prerequisites: ATR 5218C, ATR 5316C, ATR 5825L. Corequisites: ATR 5219C, ATR 5435.

ATR 5845L 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: ATR 5219C, ATR 5835L, ATR 5435. Corequisite: ATR 6620.

ATR 6207 Preventative Interventions in Athletic Training (3). Advanced primary and secondary assessment skills used by athletic trainers to develop preventative interventions will be examined and applied. Attendance at an on-campus summer workshop is required.

ATR 6425 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: ATR 5517, ATR 6620, ATR 5845L. Corequisites: ATR 6621, ATR 6855L.

ATR 6507 Entrepreneurial Leadership and Business Strategies in Athletic Training (3). Entrepreneurial leadership and business strategies related to athletic training will be examined. Topics include innovation, healthcare models and policies, human resources, and financial planning.

ATR 6518 Healthcare Informatics in Athletic Training (3). Technologies used to manage clinical data and access the most recent evidence for optimum patient care will be learned and applied. Various outcomes assessment techniques will also be discussed.

ATR 6526 Quality Improvement Strategies in Athletic Training (3). Quality improvement strategies from multiple

perspectives will be applied and evaluated. Attendance at an on-campus summer workshop is required.

ATR 6527 Community Health and Prevention Strategies in Athletic Training (3). Public health concepts encountered by athletic trainers will be introduced including risk factors, various disparities, and community-based programs and prevention strategies for medical conditions.

ATR 6620 Research and Evidence-Based Practice in Athletic Training I (3). Introduces students to a systematic approach to ask and answer clinically relevant questions in athletic training through the critical examination of existing research evidence.

ATR 6621 Research and Evidence-Based Practice in Athletic Training II (3). Introduces students to the concepts of conducting research and disseminating findings. Prerequisite: ATR 6620.

ATR 6855L 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: ATR 5517, ATR 5845L.

ATR 6906 Independent Study/Thesis in Athletic Training (1-9). Faculty supervised project or research thesis that involves an in-depth study of contemporary issues and/or clinical practices relevant to athletic training. Prerequisites: Graduate standing and permission of the instructor.

ATR 7606 Epidemiology and Health Surveillance in Athletic Training (3). Epidemiological concepts for quantifying injury and illness will be introduced. Topics include study design, techniques, hypothesis formation, and access to care.

ATR 7619 Using Research for Evidence-based Clinical Practice in Athletic Training (3). Designed to enhance the athletic trainer's clinical decision-making process by integrating clinical experience, patient values, and best available research evidence.

ATR 7630 DAT Applied Research I (3). The first in a series of five courses designed to culminate in a research project. Students will develop a clinical question, conduct a literature review, and write a rationale for the project.

ATR 7631 DAT Applied Research II (3). The second in a series of five courses designed to culminate in a research project. Students will develop the proposal and prepare the IRB submission for an applied research project. Prerequisite: ATR 7630 or permission from the instructor.

ATR 7632 DAT Applied Research III (3). The third in a series of five courses designed to culminate in a research project. Students will conduct pilot testing to finalize methodology and data management and secure IRB approval. Prerequisites: ATR 7631 or permission from the instructor.

ATR 7633 DAT Applied Research IV (3). The fourth in a series of five courses designed to culminate in a research project. Students will complete data collection and manage and analyze data for an applied research project. Prerequisite: ATR 7632 or permission of the instructor.

ATR 7634 DAT Applied Research V (3). The fifth in a series of five courses designed to culminate in a research

project. Students will complete data analysis and disseminate the research findings through submission of a manuscript. Prerequisite: ATR 7633 or permission from the instructor.

ATR 7806 Individualized Clinical Residency in Athletic Training (3). Development of an individualized residency plan of post-professional didactic and practical experiences and documentation of 200 hours in an approved setting are required. Repeatable. Prerequisite: Open to DAT students only.

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.

HSA 5125 Introduction to Health Policy and Management (3). The American health care system is broadly analyzed in social, economic, and political terms, including examination of its major operational and programmatic components as they have evolved in their changing patterns and trends of organizational development.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA 5225. Corequisite: HSA 5227.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 6185.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems in the U.S. with special emphasis on the State of Florida.

HSA 5227 Long Term Care Management II (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care given in nursing homes. Corequisite: HSA 5816.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency in Nursing Home Setting (3-6). Students will spend 480 hours of supervised practice in a selected nursing home to gain experience in organization and management within the nursing environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227.

HSA 5935 Special Topics Seminar in Health Services (1-3). Students investigate topics of interest in health care services through lectures by the faculty and guest speakers. May be repeated. Prerequisite: Permission of faculty advisor.

HSA 6149 Strategic Planning and Marketing of Health Care Services (3). Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the health services industry. Prerequisite: Completion of 36 credit hours in program coursework.

HSA 6155 Health Policy and Economics (IS) (3). This course examines the impact of government, private sector, and interest groups on priority setting in global health policymaking and national health strategies using basic economics principles. Prerequisites: HSA 6415, HSA 6156, PHC 6065. For PMBA students, completion of MAN 6095, HSA 6176, and HSA 6156.

HSA 6156 Economic and Decision Analysis in Health Services (IS) (3). Using economics as a tool, this course analyzes specific world-wide health care problems and the functioning of global health care markets. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176. For PMBA students, completion of MAN 6095 and HSA 6176.

HSA 6175 Financial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6176 Financing & Reimbursement of Health Systems (IS) (3). In this course financing models for health delivery systems are examined. Reimbursement strategy of Medicare, Medicaid and other third party payers are analyzed. Prerequisite or Corequisite: HSA 5125, For PMBA students, MAN 6095.

HSA 6185 Management and Organizational Theory in Health Care (3). Fundamentals of management and organizational theory with focus on roles and functions of managers, and the influences of organizational structure and design in the dynamic environment of health care systems.

HSA 6186 Leadership and Organization Behavior in Health Care Systems (3). Examine leadership and organizational behavior in health care settings. Personal and professional growth are encouraged through integrative study of individual, group and organizational issues. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6187 Managing Human Resources and Health Professions (3). Study of human resource functions and activities necessary to enhance knowledge, competencies, skills, attitudes and behavior and to improve individual and organizational performance in health care organizations. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6197 Design and Management of Health Information Systems (3). The development and management of health information systems to support managerial decision-making. Emphasis is on the integration of clinical, personnel, and financial data. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6205 Hospital and Health Facilities Organization (3). Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. Prerequisites: HSA 5125, HSA 6185 or permission of the instructor.

HSA 6215 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMO's) and other group medical practices operating under various financial arrangements, including prepayment. Prerequisites: HSA 5125, HSA 6185, or permission of the instructor.

HSA 6415 Marketing and Demographic Analysis in Health Care (3). This course is designed to familiarize students with analytical procedures and empirical techniques of market analysis and to equip students for practical work in market analysis. Prerequisites or Corequisites: HSA 5125 and PHC 6065.

HSA 6426 Health Law and Legal Aspects of Management (3). The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6717 Advanced Health Services Management and Research Seminar (2). Integrates the theoretical and practical knowledge of other courses in the curriculum. Case studies and relevant research provide the substantive framework for analysis of health care issues. Prerequisite: Permission of the instructor.

HSA 6759 Quality Assessment and Outcome in Healthcare (3). The concept of quality and quantity assessment are examined from multiple perspectives: patients, healthcare providers, payors standard setting organization and healthcare policymakers. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6875 Administrative Residency (1-6). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisites: HSA 6930 and approval of the coordinator.

HSA 6905 Directed Study in Health Services Administration (1-6). The course is designed to allow

students an opportunity for in-depth literature research relating to a problem or issue in health services administration under the supervision of a faculty advisor. Prerequisite: Permission of faculty advisor.

HSA 6930 Professional Seminar in Health Services Management (1). A professional seminar to provide career development skills in preparation for residency or master's project. Prerequisite: Completed 36 credit hours in the program coursework.

HSA 6977 Masters Research Project (1-6). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisites: HSA 6930 and permission of advisor.

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 Gerontology for Health Professions (3). A comprehensive overview of aging with the goal of enhancing health outcomes and promoting healthy aging locally and globally. Prerequisite: Graduate status.

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

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. Corequisite: 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 6706 or comparable.

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 6002 Advanced Health Assessment (3). Refinement of health assessment skills fundamental to advanced nursing practice emphasizing critical thinking in advanced health assessments across the lifespan. Prerequisite: Basic Health Assessment

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 Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice (3). Knowledge and skills to provide pharmacological management of client's common health problems in a safe, high quality, cost-effective manner. Prerequisites: Graduate standing and departmental permit.

NGR 6201C Advanced Adult-Gerontology 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-Gerontology 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-Gerontology 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-Gerontology 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-Gerontology Nursing (3). Critical analysis and application of the diagnostic and clinical decision making process in advanced adult-gerontology nursing practice (ANP). 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 of Anesthesiology Nursing (3). 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 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 (2). 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 cardi thoracic 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). This course will emphasize the advance anesthetic management of routine to emergent procedures including neonates, obstetrics and geriatrics utilizing GETA and regional blocks and invasive lines.

NGR 6431L Anesthesiology Nursing Clinical Residency 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 Clinical Residency 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 Clinical Residency 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 Clinical Residency 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 Clinical Residency 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 Clinical Residency 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 Clinical Residency 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 6441L Anesthesiology Nursing Simulation Practicum II (1). Application of knowledge and skills fundamental to advanced anesthesiology nursing practice in the care for the intermediate acuity patient; ultrasound guided regional anesthesia; and pain management. Corequisite: NGR 6432L.

NGR 6442L Anesthesiology Nursing Simulation Practicum III (1). Application of knowledge and skills fundamental to advanced anesthesiology nursing practice in the preparation, management and OB, pediatric, and cardio-vascular-thoracic anesthesia care. Corequisite: NGR 6433L.

NGR 6460 Pharmacology of Anesthesiology Nursing I (2). 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 (2). 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 (2). 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 6497 Advanced Anesthesia Life Support (1). Advanced Anesthesia Life Support (AALS) is an advanced course that highlights the importance of team management of emergency anesthesia events, team dynamics and communication, systems of care.

NGR 6503 Advanced Psychiatric-Mental Health Nursing I (3). This course prepares students for advanced practice roles in psychiatric mental health nursing. Scientific knowledge is developed for ARNPs seeking to care for clients across the lifespan. Prerequisite: Admission to the program. 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 6560 Advanced Psychiatric Mental Health Clinical Decision Making (3). Apply knowledge gained during the curriculum to develop the role and skills of the

FPMHNP. Identify opportunities for collaboration, consulting, and referral. Prerequisites: NGR 6503, NGR 6503L, NGR 6504C, NGR 6504L, NGR 6538.

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 6602C.

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-Gerontology Nursing Practice (4). Capstone course synthesizing role functions of the Adult Gerontology Advanced Practice Nurse. The emphasis is professional practice issues and transition into the advanced nursing 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, HSA 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 (3). 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 6743 Advanced Practice Nursing Clinical Education Seminar (1). This course provides the Advanced Practice Nursing (APN) student with the necessary foundational knowledge and skills known contribute to the successful transition of APN students from the classroom to the community-based clinical practicum environment. Prerequisites: Acceptance in one of the advanced practice nursing programs (AGNP, FNP, PNP, PMHNP) and successful completion of all pre-clinical core courses.

NGR 6748 Clinical Decision Making in Advanced Family Nursing Practice (3). Critical analysis of the clinical decision making process in advanced family nursing practice. Synthesis of learning from previous clinical courses. Corequisite: NGR 6619L.

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 6706 or NGR 5810. Corequisite: NGR 6123.

NGR 6850 Empirical Evidence for Clinical Research and Practice I (3). This course is focused on basic empirical evaluation procedures -- categorical analysis, comparison of means, correlations -- for clinical research and evidence-based practice.

NGR 6851 Empirical Evidence for Clinical Research and Practice II (3). This course is focused on advanced empirical evaluation procedures -- linear regression, structural equation modeling overview, power analysis -- for clinical research and evidence-based practice. Prerequisites: NGR 6850 or equivalent.

NGR 6857 Empirical Evidence for Clinical Research and Practice III (3). This course is focused on complex empirical evaluation procedures -- MANOVA, logistic regression, missed methods, power analysis -- for clinical research and evidence-based practice. Prerequisites: NGR 6851 or equivalent.

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 6091 or NGR 5810, NGR 5110.

NGR 6917 Grantsmanship I (3). 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 (3). 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 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 6941L Anesthesiology Nursing Simulation Practicum I (1). Application of knowledge and skills fundamental to basic anesthesiology nursing practice emphasizing preparation, assessment, positioning, fluid

and airway management, and basic anesthesia care. Corequisite: NGR 6431L.

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 7121 Scientific and Theoretical Foundations for Advanced Nursing Practice (3). This course examines the scientific underpinnings, theoretical models, and the ways of organizing nursing knowledge for advanced nursing practice.

NGR 7716 Fundamentals of Clinical Education (2). Fundamental principles of clinical education and teaching of adult learners in the healthcare professions. Emphasis is on in-service education, clinical precepting, and simulation-based instruction.

NGR 7733 Organizational Dynamics of Health Systems (3). This course will explore and analyze the role of the DNP as a systems leader and change agent for the creation, implementation, and evaluation of care delivery models within health care systems. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

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 7769 Patient Safety and Quality Improvement in Healthcare (3). Principles and practices for patient safety and quality improvement. Focus on technologies, evidence based practices and high-performance teams. Emphasize safety and QI strategies for DNP practice.

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 7853 Translational Research (3). Critique and application of research to support improved models of care delivery using evidence-based practice.

NGR 7854 Analytical Methods for Evidence-Based Clinical Practice (3). Analytical methods for evidence-based clinical practice. Focus on analysis of data to answer clinical research questions, including data mining, meta-analysis, and evaluation of practice changes. Prerequisites: Undergraduate statistics and research courses.

NGR 7871 Healthcare Informatics (3). This course is designed to prepare students to critically analyze, develop, implement, and evaluate healthcare information systems/technology within clinical and/or academic

settings. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

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 7891 Healthcare Finance and Economics in Advanced Clinical Practice (3). This course provides foundational knowledge and understanding of health care economic trends, reimbursement issues, funding sources and related ethical and legal issues in Advanced Clinical Practice. Prerequisites: Enrollment in DNP degree plan or admission in other graduate program with permission.

NGR 7892L Health Policy Practicum (3). This course will examine the role of health policy at the federal, state, and local governmental levels and its impact on health care organizations and nursing delivery systems. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

NGR 7940C DNP Project I (4). First of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7941C DNP Project II (4). Second of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7942C DNP Project III (2). Third of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7943 DNP Capstone Project Completion (1). This course will provide the DNP resident with continuous enrollment until the DNP Capstone Project requirement is fulfilled. Prerequisites: NGR 7940C, NGR 7941C, NGR 7942C.

NGR 7980 Dissertation I (3-18). Provides an overview of the dissertation process within framework of completing the dissertation. Prerequisite: Admission to candidacy.

NGR 7982 Candidacy Examination (3-9). The candidacy examination includes the successful completion of 4 written papers and an oral defense. This course is designed to assist students to prepare their papers for the candidacy examination. Prerequisite: This course must be taken during the last semester of coursework and/or after completion of required coursework as presented in student's plan of study.

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 (3). Occupation during infancy, childhood, and adolescence. Includes social, cultural, and environmental factors on occupational competence. Corequisite: OTH 5202L

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 5217 Occupational Engagement Throughout the Continuum of Care (2). Occupational therapy assessment and intervention for individuals with specific health-related conditions within the context of diverse clinical practice settings is examined. Prerequisites: Admission to the program; OTH 5414: OTH 5414L. Corequisite: OTH 5217L

OTH 5217L Occupational Engagement Throughout the Continuum of Care Lab (1). Laboratory emphasizing occupational therapy assessment and intervention for specific health-related conditions within the context of diverse clinical settings. Prerequisites: Admission to the program: OTH 5414: OTH 5414L. Corequisites: OTH 5217L

OTH 5224 Conditions Affecting Occupational Performance (3). Focuses on chronic health conditions and their impact on an individual's physical, cognitive, psychological, and social capabilities as mediators of occupational performance. Prerequisite: Admissions to the program.

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 for Psychosocial Practice I (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. Corequisite: OTH 5301L.

OTH 5301L Adaptation of Human Occupation and Environment for Psychosocial Practice I Lab (1). Administration of assessments and treatment planning for individuals with cognitive and neuropsychiatric disorders. Prerequisite: Admission to Graduate Program. Corequisite: OTH 5301.

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.

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 Global Social Justice Issues in Health Care (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.

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

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 Management and Community Based Practice in Occupational Therapy (3). Students will study administrative issues in OT and the promotion of community-based programing. Issues studied may include licensing, documentation, leadership, management, and supervision.

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 research methodology and statistical concepts in the clinical setting using examples of research in occupational therapy.

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

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 5843C Adaptation of Human Occupation and Environment for Psychosocial Practice II (3). This fieldwork course provides the student with the experience needed for occupational therapy assessment and treatment of individuals with cognitive and neuropsychiatric disorders. Prerequisites: OTH 5301 and OTH 5301L.

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

OTH 5846 Level II Fieldwork 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 5853 Fieldwork Level I (3). Practicum fieldwork experience in an approved setting.

OTH 5921L Integrative Seminar I (2). This course is designed to introduce students to the integrative process, develop strategies for learning and academic success and integrate concepts related to foundations of occupational therapy. Prerequisite: Admission to graduate program.

OTH 5922L Integrative Seminar II (2). This course is designed to integrate concepts related to research, the pediatric population and occupational therapy. Prerequisite: OTH 5921L.

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 underpinnings 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 6195 Assistive Technology and the Environment (2). Introduction of assistive technology devices and environmental modifications that enable and enhance participation in meaningful occupations for persons with disabilities. Prerequisites: Admission to the OT program. Corequisites: OTH 6195L

OTH 6195L Assistive Technology and the Environment Lab (1). Lab provides hands-on activities with assistive technology devices and environmental modifications that enable and enhance participation in meaningful occupations for persons with disabilities. Prerequisites: Admission to the OT program. Corequisites: OTH 6195L

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, Global, and Environmental 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 6923L Integrative Seminar III (2). This course is designed to integrate concepts related issues common across all practice areas an emphasis on the audit population and occupational therapy. Prerequisites: OTH 5921L and OTH 5922L.

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 6950L Integrative Seminar IV (2). This course is designed to serve as a capstone experience in the integrative process. Possibilities for practice will be explored and students will prepare for the role transition to a clinician. Prerequisites: OTH 5921L, OTH 5922L, and OTH 6923L.

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.

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 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 5935 Special Topics in Athletic Training (1-3). This course presents current trends and professional issues in Athletic Training.

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.

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 5070 Principles of Diagnostic Imaging (1). This course covers the basic physics of medical imaging and provides an overview of various diagnostic imaging tools such as X-rays, Scans, MRI, Ultrasound with emphasis on the musculoskeletal system. Corequisites: PHT 5371 and PHT 5174.

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 (1). 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 5244C Principles of Therapeutic Exercise (3). This course will discuss principles of therapeutic exercise as related to a comprehensive physical therapy plan of care for individuals across the lifespan. Prerequisite: Admission into the Physical Therapy Program.

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 5303 Principles of Pathophysiology in Physical Therapy (3). This pathology course is designed for physical therapy students. It deals with the pathophysiologic processes that affect specific tissues and organ systems of the body. Prerequisite: PHT 5174. Corequisites: PHT 5205, PHT 5181.

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 (3). 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 6125 Clinical Biomechanics (3). An introduction to temporal parameters, kinetics and kinematics of normal and pathological movement. Prerequisites: PHT 5182, PHT 5182L, PHT 6165C.

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 6165C 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 throughout 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 6403 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 (3). 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 (3). 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 (3). 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 5009C Normal Communication Development and Disorders (3). Advanced study of the processes of typical speech and language acquisition as the basis for understanding associated developmental speech and language disorders. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5012C Introduction to Communication Sciences and Disorders (3). Introduction to the processes of communication sciences and principles of identification, assessment, and treatment of speech and language disorders. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5035C Disorders of Hearing and Audiological Sciences (3). Principles and procedures involved in the identification and assessment of problems associated with the auditory mechanism, including hearing loss prevention and conservation of auditory functioning. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5051C Clinical Observation, Management, and Procedures in Communication Disorders (3). Study of the principles involved in therapeutic intervention of communication disorders in different clinical settings. Observation of assessment and treatment sessions is a requirement of the course. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5102C Advanced Human Anatomy and Physiology of Mechanisms of Communication (3). Advanced study of anatomy, physiology, and neurology mechanisms of speech and hearing. Includes system study of speech production and perception: respiration, phonation, articulation, audition. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders. Corequisite: SPA 5102L.

SPA 5102L Laboratory in Advanced Human Anatomy and Physiology of Mechanisms of Communication (1). Laboratory extension of SPA 5102C Advance Human Anatomy and Physiology of Mechanisms of Communication to accompany this course. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders. Corequisite: SPA 5102C.

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 5113C Advanced Applied Phonetics (3). Advanced study of principles of phonetics and phonetic transcription via International Phonetic Alphabet. Physiological descriptions and classification of speech sounds. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5150C Acoustics of the Sciences of Speech and Hearing (3). Advanced study of the communication sciences associated with the process of speech and hearing, including speech perception and production, speech and hearing physiology, and acoustic phonetics. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

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

SPA 5225 Fluency Disorders (3). Study of etiology, symptoms, and treatment strategies for fluency disorders.

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 5935L Pre-Clinic Seminar (1). This course is designed to address the prerequisite practicum requirements to prepare students for clinical internship rotations. Prerequisite: Acceptance into the speech

pathology master's program (or by permission from 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 (3). Study of speech and communicative problems of neuromotorically-impaired children and adults with apraxia of speech, the dysarthrias, and other related motor speech disorders. SPA 5107 and Permission of the instructor.

SPA 6254 Adult Communication Disorders and Cognition (3). Relationship between cognition and language in typical aging and definition, appraisal, and treatment of communication disorders in dementia, traumatic brain injury, and right hemisphere brain-damage.

SPA 6322 Aural Habilitation and Rehabilitation (3). This course provides information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training and language for the hearing impaired. The course is part of the Graduate Certificate in CSD and is an elective course in the Masters' in Speech-Language Pathology (if student has not completed an undergraduate course in aural rehabilitation or has not taken as part of the Graduate Certificate). Prerequisite: SPA 5035

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 6559 Augmentative and Alternative Communication (3). Introduction to augmentative and alternative communication practices relative to individuals with severe speech, language, and/or communication deficits requiring AAC strategies or devices. Prerequisite: SPA 5107.

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.