

## Course Descriptions

### Definition of Prefixes

APK-Applied Kinesiology; ATR-Athletic Training; HIM-Health Information Management; HSA-Health Services Administration; HSC- Health Sciences; IHS - Interdisciplinary Health Sciences; NUR-Nursing Practice and Theory; NSP-Nursing: Special; OTH-Occupational Therapy; PAD-Public Administration; PET-Physical Education Therapy; PHC-Public Health; PHT-Physical Therapy; SPA-Speech Language Pathology  
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.  
Courses that meet the University's Global Learning requirement are identified as GL.

**APK 3120L Physiology for the Exercise and Sports Sciences Lab (1).** The function of the human body will be studied in a small group setting using class assignments, figures, models, and physiologic measurements. Prerequisites: PET 3325 and PET 3325L.

**HIM 3006 Introduction to HIM Profession (3).** Introduces the student to the historical development of health information management and focuses on the work and responsibilities of health information professionals and their relationship with other health care providers. The student will acquire a full understanding of the medical record, including its development, purpose, content, format analysis, value and uses along with the methods used to file and track records. (F)

**HIM 3226 Basic ICD-9-CM Coding (3).** Concepts and principles of nomenclatures and classification systems used to record and compare health data. Development of ICD-9-CM coding skills and applications for research. Prerequisites: Human anatomy and physiology and medical terminology. (F)

**HIM 3236 Advanced ICD-9-CM Coding Procedures (3).** Introduction to coding as it relates to DRG system. Record analysis and data quality addressed. CPT, DSM III and current coding issues and regulations presented and discussed. Encoder experience included.

**HIM 3306 Introduction to Management in Health Care (3).** General principles of management of a health information system in any type of health care facility, including hospitals, intermediate and long term care facilities, clinics, HMO's etc. The basic concepts of management as related to the health care industry are addressed. (SS)

**HIM 3437 Fundamentals of Medical Science I (3).** Beginning with the cell and progressing through the various organ systems, the conceptual patterns of disease are explored and defined by etiology and the immune and repair responses generated by the body. The diagnostic and treatment modalities for each are studied and identified in the medical record for correlation with coding procedures. Prerequisites: Human Anatomy and Physiology. (F)

**HIM 3438 Fundamentals of Medical Science II (3).** A review of body systems to explore the various disease processes and pathological conditions which affect the organs involved. Includes detailed explanations of how the diagnostic work-ups are recorded in the medical record and how to recognize and interpret the significant findings and make intelligent coding decisions. Prerequisites: Human anatomy and physiology. (S)

**HIM 3626 Research Methods in Health Information Management (3).** This course is designed to introduce students to research concepts and tools. Emphasis is placed on research design and data collection and analysis techniques. Discussion of basic health statistics. Prerequisites: Introduction to Health Information Management, Introduction to Management, Statistics. (S)

**HIM 3675 Communication Skills for Health Care Professional (3).** This course provides an understanding of process of formal communication for the health care profession. It offers an overview of communication techniques leading to sound decision making and effective team work. It prepares students to formulate and present ideas clearly and persuasively. Prerequisites: Intro to Management, Intro to HIM profession, DPI. (F)

**HIM 3806 Directed Practice I (1).** Orientation of the student to the hospital health information department and adjunct diagnostic or therapeutic units; including the outpatient department, emergency room, admitting office, x-ray, pharmacy, physical therapy, laboratory, and pathology department. Corequisite: HIM 3006. (F)

**HIM 3816 Directed Practice II (1).** Orientation of the student to health information department functions. Rotation of the student through technical functions of the department, following the flow of the patient's record after discharge. Includes the discharge procedure, analysis, coding and indexing systems; statistical reporting; correspondence; control of the incomplete medical record; and processing of the completed record. Prerequisites: Directed Practice I, Basic ICD-9-CM Coding, Introduction to Management. Corequisite: HIM 3236. (S)

**HIM 4256 CPT-4 Coding and Reimbursement Issues (3).** CPT-4/HCPCS coding practices, data collection and outpatient reimbursement issues will be presented and discussed. Prerequisites: Anatomy, Physiology, Medical Terminology, Basic and Advanced ICD-9CM Coding. (SS)

**HIM 4344 HIM Departmental Systems (3).** Application of management principles to health information systems, including: development of manuals, job descriptions, interviewing and evaluation techniques, forms design, environmental planning etc. External activities assigned. Prerequisites: Introduction to HIM Profession and Introduction to Management, DPI. (F)

**HIM 4406 Multi-Institutional Health Information (3).** Standards and procedures for long-term, ambulatory care, home health, rehabilitation, psychiatric, dental, hospice, and other health care services are investigated and compared. Prerequisites: Introduction to HIM Profession, Research Methods, Introduction to Management, Quality Assessment. (S)

**HIM 4508 Clinical Quality Assessment and Improvement (3).** Course is designed to introduce student to quality management techniques. It includes areas of UR, RM, QA, and QI. Role of computers in QA/QI is explored. Prerequisites: Introduction to HIM Profession, Introduction to Management, DPI, DPPI, Research Methods. (F)

**HIM 4676 Problem-Solving Skills in Health Information Management (3).** Through illustrative case reports, group discussions, role playing, oral reports, lectures, buzz sessions, and review of the literature; students explore effective methods for identifying and arriving at satisfactory solutions to specific types of problems they may expect to encounter in the administration of health information services. Prerequisites: HIM 4508, HIM 4837, HIM 4256. (S)

**HIM 4837 Directed Practice III (1).** Experience in quality improvement, risk management, and utilization review areas. Clinical experience in acute care and non-acute care facilities. Prerequisite: Directed Practice I, Directed Practice II, Quality Assessment and Improvement, HIM Department Systems. (F)

**HIM 4838 Internship in Health Information Management (3).** Management experience in a health information department under the supervision of a credentialed Health Information Professional. Emphasis on administrative and medical staff relationships. Prerequisites: DPI, DPPI, DPPIII. (S)

**HIM 4905 Directed Independent Study (1-3).** Individual conferences, assigned readings, and reports on investigations related to the Health Information Management profession. (F,S,SS)

**HIM 4932 Special Topics (3).** Designed to address topics not otherwise offered in the curriculum but specific to or required for health information management. Topics to be announced yearly. (F,S,SS)

**HSA 3111 Introduction to Health Services Systems (3).** Students examine the history and current functions of health and social services delivery systems in the United States. Focus is on the components, their interaction and internal/external controls.

**HSA 3180 Leadership and Management for Health Professionals (3).** This course introduces students to an overview of the basic of leadership and management with an emphasis on the roles, functions and skills necessary in the changing health care environment. Prerequisites: ECO 2023, ACG 2021, ACG 3301, CGS 2060, STA 2023 or STA 3145 or department consent.

**HSA 3412C Cultural Competency in Health Sciences (3).** Focus on selected systems of beliefs and values of cultural groups to develop cultural competence to minimize barriers in healthcare. Prerequisite or corequisite: HSA 3111.

**HSA 4104 Team Approach to Health Service Delivery (3).** Team formation, structure, composition, maturity, growth, and the process are identified. Team management in health facilities are discussed.

**HSA 4110 Healthcare Organizational Behavior and Resource Management (3).** Analysis of organizational behavior and resource management and the implications for leadership and management of healthcare systems. Prerequisites: HSA 3111, HSA 3180.

**HSA 4113 Global Issues and Trends in Healthcare – GL (3).** Developing issues and trends involving global healthcare systems are analyzed to determine their impact on service, delivery, financing, quality measures, evidence-based practice, and accessibility. Prerequisites: HSA 4431, HSA 3412C, HSC 3661, HSA 4170, HSA 4110, HSA 4421, or department consent.

**HSA 4140 Program Planning and Evaluation (3).** Basic concepts of planning and evaluation as the fundamental tools of program design and development are examined. Prerequisites: HSA 4421, HSA 4700.

**HSA 4150 Global Healthcare Systems and Policy – GL (3).** Develop basic knowledge of Global healthcare systems and policies including healthcare outcomes, evidence based practices, sociopolitical systems and roles of various healthcare providers. Prerequisites: HSA 3412C, HSA 4431, HSA 4421, HSA 4700.

**HSA 4170 Healthcare Financial Management (3).** This course is an introduction to economics and financial management in diverse healthcare organizations. Prerequisites: HSA 3111, HSA 3180.

**HSA 4183 Applied Management in Health Care Organization (3).** Management theory and principles are examined in their application to the administrative process. Case studies are emphasized to illustrate operational conditions found in health care settings. Strategic Management is emphasized.

**HSA 4184 Human Resources Management and Supervision (3).** The role of health care supervisors is examined with respect to interviewing, performance appraisal, disciplining, counseling, job orientation, in-service education and responsibilities. Prerequisites: HSA 3111, HSA 3180, and HSC 4751 or PAD 4704 or ENC 3213 or PAD 3438.

**HSA 4190 Information and Communication Technology for Health Professionals (3).** This online course assists the student in developing information and communication skills using the Internet. It demonstrates the use of technology in clinical practice, research and education. Prerequisites: HSA 3180, HSC 3661.

**HSA 4192 Healthcare Quality Management (3).** Development and evaluation of healthcare quality management techniques including work systems, job analysis, space utilization, inventory control, and operations management. Prerequisites/Corequisites: HSA 4700, HSA 4190, HSA 4170, HSA 4110, and HSA 4421.

**HSA 4193 Automated Management and Information Systems (3).** The analysis, design, and installation of management information systems in health care organizations is studied. Evaluation of computer systems from several perspectives are examined. Prerequisites: HSA 4192 or permission of the instructor.

**HSA 4421 Legal Aspects of Healthcare (3).** Corporate structure and legal liabilities of health care institutions and professionals is studied from a local, state, and federal regulatory position. Prerequisites: HSA 3111, HSA 3180, ENC 3213 or COM 3110 or PAD 3438.

**HSA 4430 Health Economics (3).** This course is designed as an introduction to health economics. Health economics is concerned with issues related to scarcity of resources in health care markets. Prerequisites: HSA 3111, HSA 3180, HSC 4751 or PAD 4704 or ENC 3213 or PAD 3438.

**HSA 4431 Values, Ethics, and Conflict Resolution in Health and Urban Affairs (3).** Explores individual and organizational values, related values, related theories, ethical systems and their influence on behavior of individuals in government agencies, law enforcement and health care professions.

**HSA 4700 Quality and Evidence-Based Healthcare Services (3).** This course incorporates basic research methods, processes and models in analyzing research studies and incorporating current quality standards and evidence-based protocols into healthcare. Prerequisites: HSA 3111, HSA 3180, ENC 3213 or COM 3110 or PAD 3438.

**HSA 4850 BNSA Administrative Internship (3).** The student who has completed all required upper division course work is provided an opportunity to observe and engage in administrative practice in a health care setting. Prerequisites: HSA 4431, HSA 3412C, HSC 3661, HSA 4170, HSA 4110, HSA 4421, and department consent.

**HSA 4905 Undergraduate Independent Study (1-3).** Students take part in in-depth research or an action-oriented project under the supervision of their faculty advisor. Preparation and approval of the content must be made one semester in advance. Prerequisite: Permission of faculty advisor.

**HSC 1001C Perspectives of Health Science Professions (3).** A study of public health issues, disease, preventive medicine and wellness as they relate to nutrition, physical and occupational therapy. Utilizes lab and field work.

**HSC 2100 Healthy Lifestyles through Wellness (3).** A survey of wellness issues including preventive health care, substance abuse prevention, stress management, sexually transmitted diseases, psychological illness, nutrition and exercise.

**HSC 3002 Introduction to Health Science Professions (3).** Introduction to health care delivery in the United States with emphasis on the roles/responsibilities of health care providers. Additional topics include legal, ethical, safety, and wellness issues.

**HSC 3537 Medical Terminology (3).** Provides the student with basic medical language skills including, pronunciation, spelling, and definitions as a foundation for developing the degree of competency required to read and understand medical reports and communicate with physicians and other medical professionals. Prerequisites: Human Anatomy and Physiology. (F,S)

**HSC 3549 Clinical Physiology for Health Professionals (3).** An integrated, systems-based approach to the study of human physiology with relevant clinical correlations and case studies. Prerequisites: BSC 2023 or BSC 2010.

**HSC 3579 Wellness of Women (3).** Concepts relating to women's health, including sexuality, preventative health care, nutrition, exercise, reproductive diseases and the social/political health care of women.

**HSC 3661 Communication Theory and Practice for Health Professions (3).** Theory and practice of effective communication for health care professionals. Emphasis on communication between healthcare provider-client; provider-provider; provider-family. Prerequisite or Corequisite: HSA 3111.

**HSC 3701 Leadership and Management in Health Science Professions (3).** Introduces health sciences profession students to the generic principles of leadership and management for effective and efficient functioning in the health care arena.

**HSC 4553 Fundamentals of Pathology (3).** Study of human diseases/disorders of the immune, cardiovascular, hematopoietic, central nervous, musculoskeletal, respiratory, urinary/reproductive, gastrointestinal and endocrine systems. Prerequisites: PCB 2099 or HSC 3549 or PCB 3702.

**HSC 4905 Health Independent Study (3).** Faculty supervised project in health-related topics in association with the student's special interests.

**HSC 4910 Introduction to Research Methods in the Health Sciences (3).** Introduces the student to the research process in an interdisciplinary, multidisciplinary health sciences environment.

**NUR 3029 Foundations of Nursing Practice (3).** Development of essential nursing skills, using the nursing process, for managing acute and chronic care of diverse individuals in a multicultural environment. Prerequisite: Admission to Nursing Major Corequisites: NUR 3029C, NUR 3029L.

**NUR 3029C Foundations of Nursing Practice Laboratory (2).** In a laboratory setting, students develop essential nursing skills using the nursing process for management of acute and chronic care of diverse individuals. Prerequisite: Admission to Nursing Major Corequisites: NUR 3029, NUR 3029L.

**NUR 3029L Foundations of Nursing Practice Clinical (3).** In the clinical setting, students apply nursing skills, using the nursing process, for managing acute and chronic care of individuals in a multicultural environment. Prerequisite: Admission to Nursing Major Corequisites: NUR 3029, NUR 3029C.

**NUR 3066C Health Assessment and Promotion in Nursing Practice (4).** Health and physical assessment of diverse individuals and health promotion; disease and injury prevention, evidence-based teaching/learning in multicultural environment. Prerequisite: Admission to Nursing Major

**NUR 3119 Professional Nursing: Concepts and Issues (3).** Concepts and issues in professional nursing, including historical and theoretical aspects, standards, and use of communication, collaboration, advocacy, and technology within a global environment. Prerequisite: Admission to Nursing Major

**NUR 3125 Pathophysiologic Basis for Nursing Practice (3).** Adaptive responses of cells, tissues, organs and systems in the pathogenesis, clinical manifestations, and nursing management of common diseases across the life span of diverse individuals. Prerequisite: Admission to Nursing Major. (F,S)

**NUR 3145 Pharmacologic Basis for Nursing Practice (3).** Focuses on the role of pharmacotherapeutic agents for diverse individuals across the life span. Nursing management related to pharmacodynamics, adverse effects, interactions and education. Prerequisites: Admission to Nursing Major. (F,S)

**NUR 3192C Emergency Measures in Selected Health Crises (1).** Emergency measures in selected health crises using CPR and preventive techniques. Prerequisite: Permission of the instructor.

**NUR 3226 Nursing Care of Adults I (3).** First of two courses in adult health nursing. Nursing management of diverse individuals with complex health alterations. Prerequisites: Admission to Nursing Major, NUR 3029, NUR 3029C, NUR 3029L. Corequisite: NUR 3226L.

**NUR 3226L Nursing Care of Adults I Clinical (3).** First of two clinical courses in adult health nursing. Nursing management of diverse individuals with complex alterations. Prerequisites: Admission to Nursing Major, NUR 3029, NUR 3029C, NUR 3029L. Corequisite: NUR 3226.

**NUR 3227 Nursing Care of Adults II (3).** Second of two courses in adult health nursing. Nursing management of diverse individuals with complex health alterations. Prerequisite: Admission to Nursing Major Corequisites: NUR 3227L

**NUR 3227L Nursing Care of Adults II Clinical (3).** Second of two clinical courses in adult health nursing. Nursing management of diverse individuals with complex alterations. Prerequisite: Admission to Nursing Major Corequisites: NUR 3227

**NUR 3516 Crisis Intervention and Nursing (3).** This course examines the crisis state, what it is, when it occurs and how the nurse can aid the individual, family or group in crisis.

**NUR 3535 Psychosocial Nursing (3).** Development of nursing skills for managing care of diverse individuals with psychosocial diseases/disorders in multicultural communities. Prerequisites: Admission to Nursing Major Corequisites: NUR 3535L

**NUR 3535L Psychosocial Nursing Clinical (3).** In the clinical setting, development of nursing skills for managing care of individuals with psychosocial diseases/disorders in multicultural communities. Prerequisites: Admission to Nursing Major Corequisites: NUR 3535

**NUR 3666 Evidence-Based Nursing and Research in Global Health Care – GL (3).** Develop research knowledge and skills for evidence-based nursing care delivery. This is a global learning course that counts towards your global learning graduation requirement. Prerequisite: Admission to Nursing Major

**NUR 3668 Nursing Leadership in Global Health Care (3).** Development of nursing leadership and management skills for care delivery at local, state, national, and global levels. This is a global learning course. Prerequisite: Admission to Nursing Major

**NUR 3685L Integrative Nursing Care I (0).** First of two courses in the development of inter- and intra-professional collaborative care for managing care of diverse patients/clients and their families in simulated and community settings. Prerequisite: Admission to Nursing Major

**NUR 3805 Professional Nursing I: Socialization (3).** This course focuses on transitioning nursing students to the role of BSN graduates. Development of the professional nurse will emphasize evidenced-based nursing practices within a global community. Prerequisite: Admission to the Nursing Major. (F,S,SS)

**NUR 3806 Professional Nursing: RN-to-BSN Socialization (3).** This course focuses on the transition of ADN-prepared nurses to the BSN level preparation and provides the venue for internal assessment of previous learning in specific subject areas. Prerequisite: Admission in the RN to BSN Program.

**NUR 3821 Professional Nursing Leadership: Concepts and Issues – GL (3).** Introduction to professional nursing with a focus on leadership skills for care delivery at local, state, national, and global levels. Prerequisite: Admission to nursing major.

**NUR 4178 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. Prerequisite: Permission of the instructor.

**NUR 4286 Nursing Care of Older Adults (2).** Development of nursing skills, including interventions and evaluation, for managing care of diverse older adults/families in a multicultural global environment. Prerequisites: Admission to Nursing Major

**NUR 4355 Care of Families: Childrearing Nursing (3).** Development of nursing skills, using the nursing process, for providing a continuum of care of children and their families in various, multicultural settings within their community. Prerequisites: Admission to Nursing Major NUR 3227, NUR 3227L. Corequisites: NUR 4355L (F,S)

**NUR 4355L Care of Families: Childrearing Nursing Clinical (3).** Implementation of nursing skills, using the nursing process, to provide a continuum of care for of children and their families in community-based clinical settings. Prerequisites: Admission to Nursing Major, NUR3227, NUR3227L Corequisites: NUR4355. (F,S)

**NUR 4455 Care of Families: Childbearing Nursing (3).** Development of nursing skills for managing care of diverse childbearing women/families in a multicultural environment. Prerequisites: Admission to Nursing Major, NUR3227, NUR3227L Corequisite: NUR4455L. (F,S)

**NUR 4455L Care of Families: Childbearing Nursing Clinical (3).** In the clinical setting, development of nursing skills for managing care of childbearing women/families in a multicultural environment. Prerequisites: Admission to Nursing Major, NUR3227, NUR3227L Corequisite: NUR4455 (F,S)

**NUR 4636C Care of Communities: Community Health Nursing (4).** Application of nursing skills for managing care of diverse communities, groups, and populations in a multicultural environment. Prerequisites: Admission to Nursing Major (F,S,SS)

**NUR 4636L Approaches to Nursing IV: Community Nursing: Clinical Experience (3).** In the clinical area, the nursing process is applied in assisting individuals, families, and communities as clients with adaptation to potential and actual stressors. (F,S,SS)

**NUR 4665 Introduction to International Nursing Research (3).** Examines international nursing research methods and design with a focus on global health, specifically related to health disparities in underserved populations in local, national, and international areas.

**NUR 4667 Nursing in Global Health Care Systems – GL (3).** Develop basic knowledge of global healthcare systems and models. This is a global learning course that counts towards your global learning graduation requirement. Prerequisite: Admission to Nursing Major

**NUR 4686L Integrative Nursing Care II (0).** Second of two courses in the development of inter- and intra-professional collaborative care for managing care of diverse patients/clients and their families in simulated and community settings. Prerequisites: Admission to Nursing Major

**NUR 4905 Independent Study in Nursing (1-5).** Faculty supervised introduction to problems in nursing in accord with the student's special interest.

**NUR 4940 Senior Nursing Synthesis (2).** Transition from student to graduate role through synthesis of nursing knowledge in preparation for the registered nursing licensure examination. Prerequisites: Admission to Nursing Major, NUR 3227, NUR 3227L

**NUR 4945L Senior Clinical Practicum (4).** Nursing care management of groups of patients through a practicum experience in a selected clinical setting that requires critical thinking, nursing skills and social and multicultural competence. Prerequisites: Admission to Nursing Major

**NUR 4947 Directed Field Experience in Nursing (3).** Application and refinement of nursing in a clinical specialty area. Prerequisite: Permission of the instructor.

**NSP 3801 Interprofessional Approaches to Health Care (1).** Working in collaboration with medical students and other health professionals, students will develop skills (e.g. communication, conflict resolution, etc.) to work effectively in a health care team. Prerequisite: Admission to Nursing Major (Generic BSN).

**NSP 4185 Transcultural Issues and the Nurse (2).** The course is designed to guide the student into direct relationships with individuals of ethnic and racial differences, and to facilitate the development of a therapeutic relationship.

**OTH 3000 Foundations of Occupational Therapy (3).** History and theory of occupational therapy, including scope of practice and introduction to clinical reasoning. (F)

**OTH 4418 Impact of Neurological Dysfunction on Human Performance (3).** Covers functional basis of neuroscience as needed to understand neuromotor, neuromotor perceptual, and neuropsychiatric performance in function and dysfunction.

**OTH 4904 Independent Study (VAR).** To be arranged with instructor according to the student's specialty. (F,S,SS)

**PAD 3438 Communication Skills for Policy and Management (3).** Designed to enable students to develop oral and written skills required to communicate effectively in organizational and public policy settings.

**PAD 4723 Applied Research Methods for Policy and Management (3).** Research design, sampling, critical evaluation, basic research ethics, experiments and quasi experiments, reliability and validity surveys, design-implementation, qualitative and quantitative methods, secondary analysis evaluation and presentation.

**PET 4632 Therapeutic Exercise for the Injured Athlete (3).** The theory behind the use of therapeutic exercise for the care and treatment of injured athletes. Prerequisite: PET 4622. Corequisite: PET 4632L. (F,S)

**PET 4632L Therapeutic Exercise for the Injured Athlete Lab (1).** Practical, hands on experience in utilizing the proper technique and understanding the reason why the use of therapeutic exercises are used for the care and treatment of the injured athlete. Prerequisite: PET 4622. Corequisite: PET 4632. (F,S)

**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.

**PHC 4024 Principles of Applied Epidemiology (3).** Methods and techniques used by epidemiologists investigating the distribution and causes of diseases are studied. A holistic approach to principles of disease surveillance and control is studied. Prerequisite or Corequisite: HSA 3111.

**PHC 4302 Introduction to Environmental Public Health (3).** This course covers a description and analysis of environmental/occupational factors that affect the health of a community.

**PHC 4509 Introduction to Health Promotion in Public Health (3).** This course is an introduction to the role of health promotion in public health; it will address successes and failures in marketing public health program; it will discuss practical ways to prevent premature causes of death and policies.

**PHT 4012 Introduction to Physical Disability and Physical Therapy I (3).** The first of a two course sequence designed to provide a comprehensive introduction to physical disability and the role of the physical therapist in the management of disability. Prerequisites: Admission to BSHS/ Pre-physical therapy track or permission of the instructor.

**PHT 4013 Introduction to Physical Disability and Physical Therapy II (3).** The second of a two course sequence designed to provide a comprehensive introduction to physical disability and the role of physical therapist in the management of disability. Prerequisites: Intro to Disability and PT I or permission of the instructor.

**SPA 4002 Survey of Communication Disorders (3).** Theory, evaluation, and therapeutic procedures with disorders of speech and language, including but not limited to, articulation disorders, childhood language disorders, aphasia, voice disorders, and disorders of fluency. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4004 Introduction to Speech and Language Development and Disorders (3).** The study of normal speech and language acquisition and associated disorders. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4011 Speech and Hearing Science (3).** Study of speech and hearing physiology, acoustic phonetics, and speech perception. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4030 Introduction to Audiology (3).** Principles of auditory reception; the hearing mechanism; problems involved in measuring, evaluating, and conserving hearing. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4050 Clinical Management in Communication Disorders (3).** The course focuses on procedures for working in various practicum settings. It includes observation of evaluation and treatment sessions. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4101 Anatomy and Physiology of Speech and Hearing (3).** Anatomy and physiology of the speech and hearing mechanisms. Including nomenclature, respiration, phonation, articulation/resonance, the nervous system, and the auditory system. Prerequisite: Must be admitted to SLP Certificate Program in CSD.

**SPA 4101L Anatomy and Physiology of Speech and Hearing Lab (1).** Lab to accompany SPA 4101. Prerequisite: Must be admitted to SLP Certificate Program in CSD. Corequisite: SPA 4101.

**SPA 4112 Principles of Phonetics (3).** Principles of phonetics and their application to speech. Classification of speech sounds according to various systems including, but not limited to, manner and place, distinctive features, and phonological processes. Phonetic transcription

utilizing the International Phonetic Alphabet. Prerequisite: Must be admitted to SLP Certificate Program in CSD.