Advanced Medical Imaging Technology

35AMIT301 Pathophysiology for Diagnostic Medical Imaging
The goal of this course is to familiarize students with normal human physiology, and to learn how alterations in function lead to disease. Emphasis will be placed upon pathologies altering diagnostic medical images. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35AMIT401 Human Sectional Anatomy
A regional survey of human anatomy in all sectional planes. It is primarily intended for Advanced Medical Imaging Technology students but may be taken by other College students to satisfy requirements or electives. BoK: NS., QR. Credit Level: U. Credit Hrs: 4.00

35AMIT402 Sonography Seminar I
The first in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers may be utilized on an occasional basis to enhance the presentation. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35AMIT403 Introduction to Diagnostic Medical Sonography
An introductory course to the health care field of sonography. History of ultrasound, medical terminology and professional organizations specific to the discipline, and introduction to the ultrasound system will be covered. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35AMIT404 Sonography Seminar II
The second course in a seminar series on professional development, clinical correlation, student presentations, current issues and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers may be utilized on an occasional basis to enhance the presentations. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35AMIT405 Sonography Seminar III
The third course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers may be utilized on an occasional basis to enhance the presentations. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35AMIT411 Gynecological Sonography
The study and the uses of transabdominal and transvaginal medical sonography and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, and gynecological pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT412 Obstetrical Sonography I
An extensive study of the anatomy, physiology, pathology, and sonographic appearance of the developing fetus. Clinical presentation and maternal complications associated with pregnancy are also covered. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT413 Obstetrical Sonography II
An extensive study of the anatomy, physiology, pathology, and sonographic appearance of the developing fetus. Clinical presentation and maternal complications associated with pregnancy are also covered. This course will also thoroughly discuss malformations and congenital anomalies. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35AMIT421 Abdominal Sonography I
The study and uses of diagnostic medical sonography and its application in the diagnosis of diseases of the abdomen. General principles of medical sonography scanning procedures and ultrasonic characteristics of the various abdominal organs and pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT422 Abdominal Sonography II
This course is a continuation of Abdominal Sonography I and continues the study and uses of diagnostic medical sonography and its application in the diagnosis of diseases of the abdomen. General principles of medical sonography scanning procedures and ultrasound characteristics of the various abdominal organs and pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT423 Abdominal Sonography III
The study and uses of diagnostic medical sonography and its application in the diagnosis of diseases of the abdomen and small parts. General principles of medical sonography scanning procedures and ultrasonic characteristics of the various abdominal organs, small parts (breast, thyroid, scrotum, etc.), and pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35AMIT431 Sonographic Physics and Instrumentation I
The first course in sonographic principles covering basic principles of medical sonography. The basics of the ultrasound system instruments and controls, basic mathematical concepts, Doppler, and the basics of sound waves will be discussed. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35AMIT432 Sonography Physics and Instrumentation II
The second course in sonographic principles covering basic principles of medical sonography. Acoustic variables, the interaction of sound with tissue, transducers, and instrumentation of machine controls will be discussed. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT433 Sonographic Physics and Instrumentation III
The final course in sonographic principles covering basic principles of medical sonography. Pulsed echo instrumentation, displays and storage of images, Doppler, hemodynamics, artifacts, and quality assurance of ultrasound will be discussed. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35AMIT441 Magnetic Resonance Imaging Directed Practice I
This is the first in a sequence of four classes that will stress practical laboratory experience, seminars, and case studies in magnetic resonance imaging technology. Students are provided the specialized instruction and experience to accomplish procedures normally performed in magnetic resonance imaging facilities. Students are expected to demonstrate the skill, knowledge, and experience to proficiently perform routine magnetic resonance imaging procedures. BoK: NS. Credit Level: U. Credit Hrs: 2.00

35AMIT442 MAGNETIC RESONANCE IMAGING DIRECTED PRACTICE II
This is the second in a sequence of four courses that will stress practical laborator experience, seminars, and case studies in magnetic resonance imaging. Students are provided the specialized instruction.
Advanced Medical Imaging Technology
35AMIT442
MAGNETIC RESONANCE IMAGING DIRECTED PRACTICE II
and experience to accomplish procedures normally performed in MRI facilities. BoK: NS. Credit Level: U. Credit Hrs: 5.00

35AMIT443
Magnetic Resonance Directed Practice III
This is the third in a sequence of four courses that will stress practical laboratory experience, seminars, and case studies in magnetic resonance imaging. Students are provided the specialized instruction and experience to accomplish procedures normally performed in MRI facilities. Prereq: 35AMIT442. BoK: NS, SE. Credit Level: U. Credit Hrs: 6.00

35AMIT444
Magnetic Resonance Technical Evaluation
Clinical training associated with learning the principles of magnetic resonance imaging. BoK: NS., SE. Credit Level: U. Credit Hrs: 6.00

35AMIT446
Sonographic Directed Practice I
The study and the uses of transabdominal and transvaginal medical ultrasound and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, and gynecological pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT447
Sonographic Directed Practice II
The study and the uses of transabdominal and transvaginal medical ultrasound and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, and gynecological pathology will be covered. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35AMIT448
Sonographic Directed Practice III
This is the third in a sequence of four classes that will stress practical laboratory experience, seminars, and case studies in sonography. Students are provided the specialized instruction and experience to accomplish procedures normally performed in sonography facilities. Prereq: 35AMIT442. BoK: NS, SE. Credit Level: U. Credit Hrs: 6.00

35AMIT449
Sonographic Directed Practice IV
This is a final in a series of clinical experiences for sonography students. Students will apply learned techniques in the clinical setting under close supervision of clinical instructors at the designated clinical sites. BoK: NA. Credit Level: U. Credit Hrs: 6.00

35AMIT451
Medical Imaging Physics & Instrumentation
Explores the physics & instrumentation that underpins magnetic resonance scanning. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35AMIT452
Magnetic Resonance Physics & Instrumentation II
Discussion on MRI scanning principles, manipulation of MRI instrumentation, causes of image contrast, and noise, principles of RF pulses, rapid scan techniques, fat and water signal separation methods, safety issues, and spectroscopy techniques. Prereq: 35AMIT451. BoK: NS, QR. Credit Level: U. Credit Hrs: 3.00

35AMIT453
Magnetic Resonance Imaging Physics & Instrumentation III
Physics that underpin the operation of the Magnetic Resonance Imaging scanner. Prereq: 35AMIT452. BoK: NS, QR. Credit Level: U. Credit Hrs: 3.00

35AMIT457
Sonography Physics and Instrumentation II
This course deals with the fundamental principles of sonographic physics. Topics such as the nature of waves, wave properties, interactions of ultrasound with tissue, Ultrasonic beam parameters and...

Advanced Medical Imaging Technology
35AMIT457
Sonography Physics and Instrumentation II
basic Doppler principles are covered. Prereq: 35AMIT431. BoK: NS, QR. Credit Level: U. Credit Hrs: 3.00

35AMIT458
Sonography Physics and Instrumentation III
This course deals with the fundamental principles of sonographic physics. Topics such as the nature of waves, wave properties, interactions of ultrasound with tissue, ultrasonic beam parameters and basic Doppler principles are covered. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35AMIT461
Basic Elements of Magnetic Resonance Imaging Technology
An introductory course that presents basic concepts of the healthcare system and an introduction to magnetic resonance imaging procedures, applied magnetic resonance safety, anatomy, and magnetic resonance imaging systems. Course involves didactic and laboratory experiences. BoK: NS., QR. Credit Level: U. Credit Hrs: 6.00

35AMIT462
Medical Imaging Anatomy, Physiology, & Pathology I
Human anatomy & pathology as it appears on MRI images. BoK: NS., SE. Credit Level: U. Credit Hrs: 3.00

35AMIT463
Magnetic Resonance Anatomy, Physiology & Pathology II
Anatomy, Physiology, and Pathology as it relates to MRI identification. Prereq: 35AMIT462. BoK: NS, SE. Credit Level: U. Credit Hrs: 4.00

35AMIT464
Magnetic Resonance Anatomy Pathology III
Anatomy, physiology, and pathology in MRI. Joints & extremities of the human body with associated pathological conditions. Prereq: 35AMIT463. BoK: NS, SE. Credit Level: U. Credit Hrs: 4.00

35AMIT466
Basic Elements of Sonography
An introductory course that presents basic concepts of the healthcare system and an introduction to sonography procedures, anatomy and physiology relevant to sonography and sonography safety concerns. BoK: NA. Credit Level: U. Credit Hrs: 6.00

35AMIT468
Sonography Anatomy, Physiology, and Pathology II
This course will familiarize the student with anatomical and physiological irregularities and common pathologies found in sonography imaging. The course sequence will be inclusive of all commonly imaged body systems and areas. Case studies and images of the pathologies will be used. Prereq: 35AMIT402. BoK: NS, SE. Credit Level: U. Credit Hrs: 4.00

35AMIT469
Sonography Anatomy Pathology III
This course will familiarize the student with anatomical and physiological irregularities and common pathologies found in sonography imaging. The course sequence will be inclusive of all commonly imaged body systems and areas. Case studies and images of the pathologies will be used to reinforce the lectures. BoK: NS., SE. Credit Level: U. Credit Hrs: 4.00

35AMIT471
Nuclear Medicine Technology Directed Practice I
This is the first sequence of four classes that will stress practical laboratory experience, seminars, and case studies in nuclear medicine technology. Students are provided the specialized instruction and experience to accomplish procedures normally performed in nuclear medicine imaging facilities. Students are expected to demonstrate the skill, knowledge, and experience to proficiently perform routine nuclear medicine procedures. BoK: NS. Credit Level: U. Credit Hrs: 2.00

H=University Honors course.
Advanced Medical Imaging Technology

35AMIT472 Nuclear Medicine Technology Directed Practice II
This is the second in a sequence of four courses that will stress practical laboratory experience, seminars, and case studies in nuclear medicine technology. (The first class of four has already been approved for delivery during autumn quarter. Students are provided the specialized instruction and experience to accomplish procedures normally performed in nuclear medicine imaging facilities. Students are expected to demonstrate the skill, knowledge, and experience to proficiently perform routine nuclear medicine procedures. BoK: NS., SE. Credit Level: U. Credit Hrs: 4.00

35AMIT474 Technical Evaluation of Nuclear Medicine Procedures
This course stresses practical laboratory experience and case study presentation in nuclear medicine technology. Students are provided the specialized instruction and experience to accomplish procedures normally performed in nuclear medicine imaging facilities. Students are expected to demonstrate the skill, knowledge, and experience to proficiently perform routine nuclear medicine procedures and to present the results of their performance to supervising technologists, residents, and staff physicians. Prereq: 35NMT471, 35NMT472, 35NMT473. BoK: NS., SE. Credit Level: U. Credit Hrs: 6.00

35AMIT481 Nuclear Medicine Physics & Instrumentation II
This course will cover the fundamental principles of physics, mathematics, and instrumentation as applied to nuclear medicine. Topics include principles of radiation detection, radiation measuring instruments, atomic and nuclear structure, radioactive decay, interaction of radiation with matter, and the detection and registering of radiation events. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35AMIT482 Nuclear Medicine Physics & Instrumentation II
This course will cover the fundamental principles of physics, mathematics, and instrumentation as applied to nuclear medicine. Topics include principles of radiation detection, radiation measuring instruments, atomic and nuclear structure, radioactive decay, interaction of radiation with matter, and the detection and registering of radiation events. Prereq: 35AMIT481. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35AMIT483 Nuclear Medicine Physics and Instrumentation
This course will cover the fundamental principles of physics, mathematics, and instrumentation as applied to nuclear medicine. Topics include principles of radiation detection, radiation measuring instruments, atomic and nuclear structure, radioactive decay, interaction of radiation with matter, and the detection and registering of radiation events. Prereq: 35AMIT482. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35AMIT490 Sonography Technical Assessment and Review
Students will demonstrate technical proficiency in performing abdomen, small parts, obstetrical, and gynecological procedures. Students will complete and pass comprehensive examinations in these areas as well as in Sonographic physics and instrumentation. Strategies for passing nationally administered board examinations will be discussed. BoK: NA. Credit Level: U. Credit Hrs: 5.00

Advanced Medical Imaging Technology

35AMIT491 Basic Elements of Nuclear Medicine Technology
An introductory course that presents basic concepts of the health care system and an introduction to radiopharmacy, applied radiation safety, physiology, nuclear medicine imaging systems, and nuclear medicine procedures. Course involves didactic and laboratory experiences. BoK: NS., QR. Credit Level: U. Credit Hrs: 6.00

35AMIT492 Nuclear Medicine Anatomy, Physiology & Pathology
Didactic and laboratory instruction on the structure, function, and pathology of the human body as they apply to the field of nuclear medicine. Ethics, patient care and management, response to emergency procedures, and imaging principles and procedures are included. BoK: NS., SE. Credit Level: U. Credit Hrs: 3.00

35AMIT493 Nuclear Medicine Anatomy, Physiology, & Pathology
Didactic instruction on the structure, function, and pathology of the human body as they apply to the field of nuclear medicine. Patient care and management with respect to nuclear medicine procedures, response to emergency procedures, and imaging principles and procedures are included. BoK: NS., SE. Credit Level: U. Credit Hrs: 4.00

35AMIT494 Nuclear Medicine Anatomy, Physiology & Pathology III
Didactic instruction on the structure, function, and pathology of the human body as they apply to the field of nuclear medicine. Patient care and management with respect to nuclear medicine procedures, response to emergency procedures, and imaging principles and procedures are included. BoK: NS., SE. Credit Level: U. Credit Hrs: 4.00

35AMIT495 Medical Imaging Research Methodologies I
Introduction to research methodologies, specifically qualitative, in the field of medical imaging. BoK: QR., SE. Credit Level: U. Credit Hrs: 3.00

35AMIT496 Quantitative Analysis in Medical Imaging
This course provides students with the basic competencies in the understanding, design, analysis, interpretation, and evaluation of quantitative research used in medical imaging sciences. BoK: QR., SE. Credit Level: U. Credit Hrs: 3.00

35AMIT497 Medical Imaging Capstone
A course in which students interact as both participants and presenters in a series of seminars in state-of-the-art medical imaging, radiation biology and radiation safety and health care ethics. Students also engage in a brief research assignment. Prereq: 35AMIT495, 35AMIT496. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35AMIT498 Advanced Medical Imaging Technology Review
This course provides students with a comprehensive review of the basic competencies in advanced medical imaging modalities. It is the intent of this course to prepare students for national certification in multiple medical imaging modalities. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35AMIT499 Radiopharmacy & Radiochemistry Laboratory
Through direct, hands-on experience supervised by faculty, the student will perform quality control of radioactive materials and radiation measuring and monitoring devices, prepare, transport, administer and control the disposition of radioactive materials used in nuclear medicine practice, correctly document procedures for state and radiation. BoK: NS., QR. Credit Level: U. Credit Hrs: 4.00

H=University Honors course.
Advanced Medical Imaging Technology

35AMIT501 Advanced Medical Imaging Practicum
This course is designed to incorporate service learning with the required AMIT curriculum. In this course, students will travel to a poverty ridden area and perform studies for patients who otherwise have no access to health care. BoK: NS., DC. Credit Level: U. Credit Hrs: 2.00

35AMIT588 Radiobiology and Radiation Protection
Safe handling of radioactive materials, units of radiation, exposure and dose, dose calculations, radiation protection guides, radiation protection instrumentation BoK: NS., NA. Credit Level: U. Credit Hrs: 3.00

Blood Transfusion Medicine

35BTM801 Foundations for Blood Transfusion Medicine I
Instruction on pretransfusion testing, serological methods, immunohematology, cellular therapies, tr ansplantation immunology, blood groups, donor selection, infectious disease testing, blood component blood administration, apheresis, hazards of transfusion, clinical indications for blood transfusions. Credit Level: G. Credit Hrs: 3.00

35BTM802 Foundations for Blood Transfusion Medicine II
Instruction on pretransfusion testing, serological methods, immunohematology, cellular therapies, transplantations immunology, blood groups, blood collection, infectious disease testing, blood component manufacturing and storage, blood administrations apheresis, hazards and clinical indications of transfusions. Credit Level: G. Credit Hrs: 3.00

35BTM803 Foundations for Blood Transfusion Medicine III
Instruction on pretransfusion testing, serological methods, immunohematology, cellular therapies, transplantations immunology, blood groups, donor selection, infectious disease testing, blood component storage, administrations, apheresis, hazards of transfusions, clinical indications for blood transfusions. Credit Level: G. Credit Hrs: 3.00

35BTM804 Transfusion Medicine Seminar I
Literature review, written paper and oral presentation of blood transfusion medicine topic. Credit Level: G. Credit Hrs: 2.00

35BTM805 Transfusion Medicine Seminar II
Literature review, written paper and oral presentation of blood transfusion medicine topic. Credit Level: G. Credit Hrs: 2.00

35BTM806 Transfusion Medicine Seminar III
Literature review, written paper and oral presentation of blood transfusion medicine topic. Credit Level: G. Credit Hrs: 2.00

35BTM811 Laboratory/Clinical Practicum I
Practical training in the laboratories, donor collection services, blood manufacturing, product management, supervision, administration, education and quality assurance. Credit Level: G. Credit Hrs: 4.00

35BTM812 Laboratory/Clinical Practicum II
Practical training in the laboratories, donor collection services, blood manufacturing, product management, supervision, administration, education and quality assurance. Credit Level: G. Credit Hrs: 4.00

35BTM813 Laboratory/Clinical Practicum III
Practical training in the laboratories, donor collection services, blood manufacturing, product management, supervision, administration, education and quality assurance. Credit Level: G. Credit Hrs: 4.00

Blood Transfusion Medicine

35BTM821 Masters Thesis Research I
Preparation of written research proposal to include a literature review, research plan, materials and methods, data analysis, budget and bibliography. Investigative research in laboratory or clinical setting. Credit Level: G. Credit Hrs: 6.00-12.00

35BTM822 Masters Thesis Research II
Investigative research in a laboratory or clinical setting. Credit Level: G. Credit Hrs: 6.00-12.00

35BTM823 Masters Thesis Research III
Investigative research in a laboratory or clinical setting. Preparation of written thesis. Credit Level: G. Credit Hrs: 6.00-12.00

35BTM831 Research Project
Introduction to research to include literature review, research plan, laboratory investigation data collection and statistical analysis. Credit Level: G. Credit Hrs: 3.00

35BTM841 Teaching Practicum in Transfusion Medicine
Curriculum development, preparation of laboratory specimens, preparation and presentation of didactic lectures, and test construction. Credit Level: G. Credit Hrs: 3.00

35BTM851 Scientific Writing and Presentation
Research findings summarized and submitted for regional or national presentation. Submission of research findings to peer review journal. Credit Level: G. Credit Hrs: 3.00

Clinical Laboratory Science

35CLSC201 Survey of Clinical Lab
An overview of routine clinical laboratory tests as they relate to human health and disease. Included are discussions describing the major areas of the laboratory, followed by demonstrations and hands-on experience in the student laboratory. Open to non-Medical Technology majors. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35CLSC301 Introduction To Forensic Science
This course is a survey in the medical laboratory aspects of forensic science. Each week a different discipline will be presented, with the focus on scientific techniques which constitute a crime solving tool. Experts will be used to impart under standing of the wide scope of Forensic Science. BoK: NS. Credit Level: U. Credit Hrs: 2.00

35CLSC305 Introduction to Biomedical Laboratory Science
Introductory course in Biomedical Laboratory Science covering general topics related to the biomedical research laboratory. Emphasis will be placed upon the role of a research laboratory associate in a research setting. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC310 Clinical Immunology I
The study of fundamental concepts in clinical immunology as pertinent to the clinical laboratory. Discussions include the structure and function of the immune system in health and disease and the clinical approaches to immunological testing. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC340 Principles of Clinical Laboratory Practice
This course will provide the students with an introduction to the practice of clinical laboratory science. Topics include professionalism, professional ethics, laboratory organization and safety. Students will learn and perform fundamental laboratory techniques. Students will

H=University Honors course.
Clinical Laboratory Science

35CLSC340
Principles of Clinical Laboratory Practice
be introduced to the various departments of the clinical laboratory and will learn the use of basic laboratory equipment. BoK: NA. Credit Level: U. Credit Hrs: 10.00

35CLSC350
Special Topics in CLS
An objective look at the field of Clinical Laboratory Medicine from its inception, and leading up to current and future technologies with an emphasis on specialized and advanced technologies and the issues surrounding those. BoK: HP., NS. Credit Level: U. Credit Hrs: 3.00

35CLSC351
Laboratory Operations: Management, QA/QC, and Continuing Education
A study of the basic principles of clinical laboratory management, including theory and practice. Topics will include personnel and financial management, regulation and accreditation, information management, quality assurance and quality control, and continuing education. BoK: QR., DC. Credit Level: U. Credit Hrs: 4.00

35CLSC352
Introductory Medical Biochemistry
The basic principles of the structure and function of organic compounds in the human system including amino acids, enzymes, lipids, carbohydrates, and nucleic acids. BoK: NS., QR. Credit Level: U. Credit Hrs: 4.00

35CLSC353
Clinical Chemistry and Body Fluids
A study of serum and fluid chemistry in normal and pathological states. Topics will include the basic principles of the structure and function of organic compounds in the human system. Discussions emphasize the relationship between normal and abnormal laboratory results and organ system function. The study of body fluids is included, as well as a review of urinalysis and renal function. BoK: NS., QR. Credit Level: U. Credit Hrs: 10.00

35CLSC354
Statistics and Research in Clinical Laboratory Science
The statistics units will focus on the statistical principles that are pertinent to health care, and to the clinical laboratory. The research and methods units will focus on current research topics in laboratory medicine, and the development and verification of laboratory protocols. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35CLSC355
Ecology and Environmental Toxicology
The basic principles of ecology including ecosystem structure and function, and conservation biology. The environmental toxicology units will focus on the nature and the detection of toxic substances in the environment and their effects on humans. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC356
Clinical Hematology and Hemostasis
An advanced study of blood and blood cells in normal and pathological states. Discussions on normal and abnormal hematopoesis are included. The hemostasis unit is a comprehensive study of the blood clotting system in normal and pathological states. Included are discussions regarding the correlation of the test results with disease states and therapies. BoK: NS., QR. Credit Level: U. Credit Hrs: 10.00

35CLSC357
Clinical Microbiology
Advanced study of microorganisms associated with human infectious processes. Discussions include the characteristics, isolation, identification, antimicrobial techniques, and clinical infections associated with pathogenic bacteria. BoK: NS. Credit Level: U. Credit Hrs: 10.00

Clinical Laboratory Science

35CLSC358
Principles of Clinical Immunohematology
A study of the theory, principles and procedures associated with transfusion medicine. Discussions cover routine and specialized procedures, blood donors, components, regulations, and quality assurance. BoK: NA. Credit Level: U. Credit Hrs: 10.00

35CLSC359
Human Genetics and Molecular Diagnostic Techniques
Overview of nucleic acid structure, gene expression and genetic disease. Principle of DNA and RNA isolation, cloning, amplification, hybridization, sequencing and analysis. Applications in microbiology, hematology and oncology, thrombosis risk testing, genetics disease, anthropology and forensic medicine. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35CLSC360
Clinical Mycology and Virology
The study of clinically relevant fungi and viruses and the laboratory diagnosis of the organisms involved. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35CLSC361
Advanced Clinical Practice I
A clinical practicum experience that will focus on advanced, applied clinical laboratory techniques and concepts. The practicum experience will be individually designed for each student. The student will participate in choosing the the practicum site. BoK: NS., QR. Credit Level: U. Credit Hrs: 1.00-10.00

35CLSC362
Clinical Parasitology
The study of clinically relevant parasites and the laboratory diagnosis of the organisms involved. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC363
Advanced Clinical Applications
The second of two clinical practicum courses. This course will focus on the project based study of advanced, applied clinical laboratory techniques and concepts. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC364
Clinical Laboratory Science Distance Learning Seminar
This seminar course will focus on building critical thinking and problem solving skills during clinical case study discussions. The course will include a comprehensive review of the major clinical laboratory science disciplines. Students will take a comprehensive examination at the end of the course. BoK: NS., QR. Credit Level: U. Credit Hrs: 4.00

35CLSC365
Clinical Laboratory Science Distance Learning Capstone
A course in which students participate in a series of seminars culminating in the development and presentation of a fundamental research project involving an aspect of state-of-the-art clinical laboratory science practice. Under the direction of faculty, students prepare a written report and publicly present their findings. BoK: QR., SE. Credit Level: U. Credit Hrs: 3.00

35CLSC366
Immunology
This course is a focused study of clinical immunology concentrating on immune system functions, the response of the immune system to infection and disease, and current diagnostic methodologies and molecular applications. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC400
Introduction to Clinical Laboratory Science
Introduction and orientation to the field of Clinical Laboratory Science. Includes discussions on professionalism, basic laboratory concepts and techniques, and phlebotomy. Microscopy and phlebotomy techniques are practiced in the student laboratory. BoK: NS., HP. Credit Level: U. Credit Hrs: 3.00

H=University Honors course.
Clinical Laboratory Science

35CLSC401 Clinical Hematology I
The study of blood and blood cells in a normal state. Discussions on normal and abnormal hematology are included. Routine hematology procedures are performed in the student laboratory, with an emphasis on the microscopic evaluation of normal blood cell morphology and evaluation of complete blood count data. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35CLSC403 Coagulation
A comprehensive study of the blood clotting system in normal and pathological states. Included are discussions regarding the correlation of test results with disease states and therapies. Semi-automated and manual techniques are performed in student laboratory exercises. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35CLSC404 Clinical Immunology II
The study of advanced topics in clinical immunology including the discussion of autoimmune diseases, immunodeficiencies, histocompatibility, and advanced immunodiagnostic techniques. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CLSC405 Immunohematology
A study of the theory, principles, and procedures associated with transfusion medicine. Discussions and laboratory exercises cover routine and specialized procedures, blood donors, components, regulations, and quality assurance. BoK: NS., QR. Credit Level: U. Credit Hrs: 6.00

35CLSC406 Urinalysis and Body Fluids
A study of urinalysis procedures, renal function, and body fluid examination. Manual and semi-automated laboratory procedures are performed in the student laboratory. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35CLSC410 Clinical Chemistry
A study of serum and fluid chemistry in the normal and pathological states. Discussions emphasize the relationship between normal and abnormal laboratory results and organ system function. Manual and automated procedures are performed in the student laboratory. BoK: NS., QR. Credit Level: U. Credit Hrs: 7.00

35CLSC411 Clinical Parasitology
The study of human parasitic diseases and the organisms involved. Lectures and laboratory exercises emphasize the detection and identification of diagnostic forms. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35CLSC412 Clinical Mycology
The study of clinically relevant fungi, with emphasis on diagnostic forms. Isolation and culture techniques are practiced in the laboratory. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35CLSC413 Survey of Management
A study of the basic principles of management theory and practice. Current clinical issues including daily operation, regulations, and accreditation are discussed. Basic educational theory and concepts are discussed in the education component. BoK: QR. Credit Level: U. Credit Hrs: 3.00

35CLSC417 Senior Seminar
A capstone experience including assessment of laboratory knowledge through guided & independent review and other activities related to certificatin Additional research experience is provided through senior research projects that lead to poster presentations in the college.

Clinical Laboratory Science

35CLSC417 Senior Seminar
PRaise Conference. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35CLSC418 Clinical Laboratory Science Elective
Opportunity for students to gain practical experience in a specialized clinical or research laboratory. Students participate in site selection for this experience. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35CLSC424 Diagnostic Molecular Techniques
Introduction to molecular biology techniques and their application to laboratory diagnosis of disease. BoK: NS., QR. Credit Level: U. Credit Hrs: 3.00

35CLSC425 Independent Study in Medical Technology
A course designed to allow students to pursue an individualized learning project with approval of an advisor and under the supervision of a faculty member. BoK: NS., QR. Credit Level: U. Credit Hrs: 1.00-8.00

35CLSC430 Clinical Practicum I
This is the first of two courses that will stress practical laboratory experience, professional performance and mastery of skills in Clinical Laboratory Sciences. Students are provided the specialized instruction and experience needed to accomplish procedures normally performed in a hospital laboratory. BoK: DC., SE. Credit Level: U. Credit Hrs: 6.00

35CLSC431 Clinical Practicum II
This is the second in a series of two courses that will stress practical laboratory experience, professional performance and mastery of skills in Clinical Laboratory Sciences. Students are provided the specialized instruction and experience needed to accomplish procedures normally performed in a hospital laboratory. BoK: NA. Credit Level: U. Credit Hrs: 8.00

35CLSC432 Clinical Hematology II
The study of the blood and blood cells in an abnormal or malignant state. Discussions on Red Blood Cells and White Blood Cell Disorders are included. Specialized hematology procedures are performed in the student laboratory, with an emphasis on the microscopic evaluation of abnormal blood cell morphology, evaluation of complete blood count data along with cytochemical and molecular testing. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35CLSC434 Senior Seminar II
The course will serve to bring together all concepts covered throughout the clinical year via case studies and structured review. Its purpose is to prepare graduating CLS students for the final comprehensive exam and the national certifying exam. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35CLSC435 Clinical Microbiology I
The study of microorganisms associated with human infections process. Discussions include the characteristics, isolation, identification and antimicrobials associated with pathogenic organisms. Techniques are practiced in the teaching laboratory BoK: NS., QR. Credit Level: U. Credit Hrs: 2.00

35CLSC436 Clinical Microbiology II
This course covers advanced topics in microbiology including antibiotics and antimicrobial susceptibility testing, mycobacteriology, anaerobic bacteriology, virology and clinical aspects of micro- biology. The lecture and laboratory portions of the course train students to be well-prepared BoK: NA. Credit Level: U. Credit Hrs: 3.00

H—University Honors course.
Clinical Laboratory Science

35CLSC440 Clinical Laboratory Science Capstone
A course in which students participate in a series of seminars culminating in the development and presentation of a fundamental research project involving an aspect of the art clinical laboratory science practice. Under direction of faculty, students prepare a written report and publically present their findings. BoK: U. Credit Hrs: 3.00

35CLSC500 Independent Studies in Clinical Laboratory Sciences
Independent study in area if focus based upon the student's interest or need. BoK: NA. Credit Level: U. Credit Hrs: 1.00-10.00

35CLSC501 Independent Studies in Clinical Laboratory Sciences
Independent study in area if focus based upon the student's interest or need. BoK: NA. Credit Level: U. Credit Hrs: 1.00-10.00

35CLSC502 Independent Studies in Clinical Laboratory Sciences
Independent study in area if focus based upon the student's interest or need. BoK: NA. Credit Level: U. Credit Hrs: 1.00-10.00

Communication Sciences and Disorders

35CSD171 Communication Disorders in the Media and Lit
An exploration of various communication disorders and how they are portrayed by the media and in literature. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35CSD212 Survey of Communication Disorders
A survey of the field of communication disorders: descriptions of speech, language and voice disorders. Recommended prereq: 35CSD171. BoK: SE, DC. Credit Level: U. Credit Hrs: 3.00

35CSD309 Anatomy and Physiology of Speech and Vocal Mechanisms for Speech-Language Pathology
This course is an introduction to the anatomy and physiology of the speech/voice/language mechanisms. The course will include learning unit on the anatomical systems of respiration, phonation, articulation and swallowing. We will also include an introduction to brain anatomy as it pertains to systems of speech, language and swallowing mechanisms. None of these human systems exist in isolation. We will learn how the systems interact to produce speech and language. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35CSD310 Anatomy & Physiology of Voice and Speech Production
Anatomy and physiology of the systems of respiration, phonation, articulation, and neurology for voice, speech and swallowing. Prereq: 35CSD171, 35CSD212. Prereq: NS. Credit Level: U. Credit Hrs: 4.00

35CSD311S Speech and Language Development

35CSD371 Phonetics

35CSD372 Syntax for Language Assessment
This course provides prospective SLP students with the basics of
Communication Sciences and Disorders

35CSD562 Audiology II

35CSD563 Audiology III

35CSD568H Hearing and Sound Production Through the Ages: Jurassic Acoustics
This course is designed to familiarize students with the bioacoustics of human and animal communication and hearing including comparative terrestrial/marine mammal vocal anatomy, physiology and neuroanatomy, sound production mechanisms and acoustic behavior. The course documents the evolution of the hearing and vocal systems of humans and their relationship to animals. Prereq: Honor students only. BoK: HP, NS. Credit Level: U, G. Credit Hrs: 3.00

35CSD593 Individual Work in Speech Language & Hearing
Guided study in communication sciences and disorders. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-9.00

35CSD594 Honors Work in Speech Language & Hearing
Honors projects in Communication Sciences & Disorders. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-9.00

35CSD595 Capstone Experience
The Capstone Experience will allow the students to demonstrate proficiency in the four Baccalaureate Competencies of the General Education Program as well as in the content of the B.S. Degree in CSD. BoK: NA. Credit Hrs: 1.00-3.00

35CSD619 Physical Bases of Audiology
Basic concepts in acoustics, electricity and electronics necessary for audiology. BoK: NA. Credit Level: G, U. Credit Hrs: 4.00

35CSD622 Biology of the Cochlea
Structure and function of the peripheral auditory system. BoK: NA. Credit Hrs: 3.00

35CSD623 Introductory Audiology Practicum I
First year clinical hands-on experience performing basic diagnostic testing and habilitative intervention in the on-campus clinic or at an off-campus site. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

35CSD624 Introductory Audiology Practicum II
First year clinical hands-on experience performing basic diagnostic testing and habilitative intervention in the on-campus clinic or at an off-campus site. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

35CSD625 Introductory Audiology Practicum III
First year clinical hands-on experience performing basic diagnostic testing and habilitative intervention in the on-campus clinic or at an off-campus site. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

35CSD650 Autism Spectrum Disorders: Assessment & Intervention
This course will provide information for assessment and development of communication intervention for individuals with Autism Spectrum Disorders. BoK: NA. Credit Level: G, U. Credit Hrs: 3.00

Communication Sciences and Disorders

35CSD650 Autism Spectrum Disorders: Assessment & Intervention
This course will provide information for assessment and development of communication intervention for individuals with Autism Spectrum Disorders. BoK: NA. Credit Level: G, U. Credit Hrs: 3.00

35CSD626 Audiology Clerkship I
Practicum following the first academic year with placement in the on-campus clinic or an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD700 Counseling in Communication Disorders
Overview of the personal and family emotional toll and life impact of communication disorders. Examination and role playing w/center on building healthy patient/professional dynamics to facilitate rehabilitation. Credit Level: G. Credit Hrs: 3.00

35CSD702 Special Topics in Communication Disorders
Specialized information about current issues and techniques. Credit Level: G. Credit Hrs: 1.00-6.00

35CSD706 Diagnostic Audiology I
Assessment of auditory function, emphasis on pure tone, speech and immittance measurements, interpretation of test results. Prereq: 35CSD562. Credit Level: G. Credit Hrs: 4.00

35CSD708 Management of the Hard of Hearing Child
Assessment and management of children with hearing loss in educational settings. Prereq: 35CSD563. Credit Level: G. Credit Hrs: 3.00

35CSD709 Cochlear Implantation: Theory and Practice
Overview of Cochlear Implantation. Cochlear implant technology and function. Patient criteria and determination. Pre and post-implant counseling, testing and mapping/coding strategies. Medical and surgical perspectives in cochlear implantation. Aural habilitation for the CI user. Understanding other professional roles in the CI process. Credit Level: G. Credit Hrs: 3.00

35CSD710 Speech Sound Disorders
Assessment and intervention for speech sound disorders in children. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD711 Language Disorders in Early Childhood
Contemporary strategies for assessment and intervention for preschool and early school age children with language disorders. Prereq: 35CSD710. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD712 Language Disorders in Later Childhood
Contemporary strategies for assessment and intervention for school age children with language disorders. Prereq: 35CSD711. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD716 Pathophysiology of Audition
Overview of the biological bases of auditory dysfunction; anatomical and physiological studies associated with different categories of cochlear insult (eg. ototoxicity, acoustic trauma, presbycusis) and central auditory nervous system (eg. auditory neuropathy). Credit Level: G. Credit Hrs: 3.00

35CSD717 Diseases of the Ear
Survey of pathologies, medical and surgical management of diseases of the auditory system. Credit Level: G. Credit Hrs: 1.00-3.00

H=University Honors course.
Communication Sciences and Disorders

35CSD717
Diseases of the Ear
Survey of pathologies, medical and surgical management of diseases of the auditory system. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD718
Pediatric Audiology: Assessment
Indentification and evaluation of infants and children with hearing loss. Credit Level: G. Credit Hrs: 4.00

35CSD719
Amplification Systems I
Introduction to amplification systems for the hearing impaired. Topics: types of aids and their components, electroacoustic characteristics of hearing aids, coupler measurements, output limitation and earmolds. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD720
Amplification Systems II
Selection and fitting of amplification for the hearing impaired. Topics include: hearing aid evaluation, prescription of electroacoustic characteristics, fitting procedures, and post- fitting counseling. Credit Level: G. Credit Hrs: 5.00

35CSD723
Graduate Audiologist I
Second year, first clinical practicum placement in the on-campus clinic or an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD724
Graduate Audiologist II
Second year, second clinical practicum placement in the on-campus clinic or an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD725
Graduate Audiologist III
Second year, third clinical practicum placement in the on-campus clinic or an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD726
Audiology Clerkship II
Practicum following the second academic year with placement in an on- or off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD727
Diagnostic Audiology II
Description, definition, and basic instrumentation of otoacoustic emissions and ECoch and ABR in the assessment of hearing-impaired people. Credit Level: G. Credit Hrs: 3.00

35CSD728
Seminar in Auditory Processing Disorders
Contemporary techniques used by audioligists for assessment management of central auditory processing disorders. Credit Level: G. Credit Hrs: 3.00

35CSD729
Seminar in Animal Audiology
Overview of animal bioacoustics with focus on canine, equine and marine mammal species. Examination and practice with adaptation of human clinical audiological practices to canines. Specific focus on electrophysiological hearing assessment and amplification strategies. Prereq: 35CSD619. Credit Level: G. Credit Hrs: 3.00

35CSD731
Neuro Bases of CD
Neurophysiology for evaluation and treatment of neurogenic speech and language disorders in children and adults. Prereq.: 35CSD210

Communication Sciences and Disorders

35CSD732
Neurogenic Language Disorders
Evaluation and treatment of aphasia and the communication aspect of other language, cognitive and neurobehavioral disorders in children and adults. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD733
Neurogenic Cognitive Disorders
Evaluation and treatment of the communicative aspects of cognitive and neurobehavioral disorders in children and adults. Credit Level: G. Credit Hrs: 3.00

35CSD734
Neurogenic Speech Disorders
Neurophysiology, evaluation, and treatment of neurogenic speech disorders in children and adults. Credit Level: G. Credit Hrs: 3.00

35CSD743
Research Design in Communication
Planning and analysis, application to individual research. Prereqs: STAT 146 or 147 Prereq: 15STAT146. Credit Level: G. Credit Hrs: 3.00

35CSD745
Psychoacoustics
Thresholds, scaling of judgements, signal detection, lab demonstrations. Credit Level: G. Credit Hrs: 3.00

35CSD748
Advanced Speech and Hearing Science
Advanced understanding of normal and disordered speech production and perception. Credit Level: G. Credit Hrs: 3.00

35CSD761
Speech Communication for the Hearing Impaired
Principles from speech and hearing science, normal development, phonetics as applied to development and/or modification of speech in deaf children and adults. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD762
Speech Communication for the Hearing Impaired
Study of speech, voice and informal auditory evaluation procedures for students with impaired hearing. Case study development and reporting emphasized. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD763
Speech Communication for the Hearing Impaired
Principles of assessment and modification of speech in deaf children and adolescents. Credit Level: G. Credit Hrs: 3.00

35CSD773
Reading and Literacy for SLP’s
This course provides in depth information concerning evidence based practice in all aspects of reading and literacy as it pertains to the knowledge needed by SLPs to provide state of the art services to children. Credit Level: G. Credit Hrs: 3.00

35CSD774
Emergent Literacy for Speech-Language Pathologists
The course provides a connection between theory and practice in emergent literacy for speech-language. Credit Level: G. Credit Hrs: 3.00

35CSD777
Seminar in School Issues
Organization, management and administration of a school speech-language pathology and audiology program. Credit Level: G. Credit Hrs: 3.00

35CSD783
Collaborative Literacy Seminar I: Language and Literacy
Development of an understanding of issues related to language and
Communication Sciences and Disorders

35CSD783 Collaborative Literacy Seminar I: Language and Literacy literacy. Credit Level: G. Credit Hrs: 2.00

35CSD784 Collaborative Literacy Seminar II: Collaboration A survey of the collaborative process in language and literacy intervention. Credit Level: G. Credit Hrs: 2.00

35CSD785 Collaborative Literacy Seminar III: Curriculum The implementation of curriculum in language and literacy intervention. Credit Level: G. Credit Hrs: 2.00

35CSD786 Collaborative Literacy Seminar IV: Capstone Project Synthesis and application of language and literacy modules to Providers, Activities, Contexts model. Credit Level: G. Credit Hrs: 2.00

35CSD811 Voice Disorders Function and disorders of the larynx; evaluation and management. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD812 Craniofacial Anomalies Cleft palate and associated orofacial anomalies. Evaluation and management. Credit Level: G. Credit Hrs: 3.00

35CSD813 Seminar in Stuttering Theories of stuttering; therapeutic approaches. Taught concurrently with intensive therapy program. Credit Level: G. Credit Hrs: 1.00-5.00

35CSD814 Seminar in Laryngectomy This course addresses diagnosis and treatment of speech disorders resulting from head and neck cancer. Alternative methods of speaking after removal of the larynx will also be addressed. Credit Level: G. Credit Hrs: 1.00

35CSD816 Noise and Hearing Concepts in hearing risk, personnel protection, noise measurement. Credit Level: G. Credit Hrs: 2.00

35CSD818 Audiologic Rehabilitation of the Adult Discussion and study of the principles and methods of aural rehabilitation of the adult. Credit Level: G. Credit Hrs: 3.00

35CSD819 Pediatric Audiology: Intervention and Management Principles of hearing habilitation and hearing management counseling for families and their young children with mild to profound hearing loss. Credit Level: G. Credit Hrs: 5.00

35CSD822 Vestibular Assessment and Rehabilitation Theory and practice in electrophysiologic assessment of normal and disordered vestibular systems. Credit Level: G. Credit Hrs: 3.00

35CSD823 Internship in Audiology I Third year, first clinical practicum placement in an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD824 Internship in Audiology II Third year, second clinical practicum placement in an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD825 Internship in Audiology III Third year, third clinical practicum placement in an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD826 Audiology Clerkship III Practicum following the third academic year with placement in an off-campus site such as a medical setting, school, private practice, or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD827 Vestibular Assessment and Rehabilitation II Pedagogy and practical training in the advanced assessment of vestibular disorders, including advanced diagnostic procedures that include rotary chair, sway platform posturography, vestibular evoked myogenic potentials, electrophysiological, cantholith repositioning. Prereq: 35CSD822. Credit Level: G. Credit Hrs: 3.00

35CSD830 Dysphagia In depth instruction regarding anatomy and physiology of normal and disordered swallowing, assessment, treatment and research. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD831 Augmentative and Alternative Communication Selection of communication systems for non-speaking clients and strategies for assessment intervention using augmentative/alternative systems. Prereq.: 18SPED714 Prereq: 18SPED714. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD832 Early Intervention for Children with Communication Disorders The speech language pathologists role in providing transdisciplinary services to infants and toddlers. Credit Level: G. Credit Hrs: 3.00

35CSD834 Advanced Dysphagia To provide students with an in-depth understanding of the assessment and treatment of abnormal swallowing in medically complex children and adults. Included will be a review of pathophysiology, etiological correlates, evaluation and management techniques, and current research on swallowing disorders involving complex pulmonary, airway, systemic, or neurogenic disorders. This course assumes a prior knowledge of basic head and neck anatomy, physiology, neuroanatomy, normal and abnormal swallowing, clinical and instrumental assessment and basic treatment planning. Prereq: 35CSD830, 35CSD731, 35CSD310. Credit Level: G. Credit Hrs: 3.00-5.00

35CSD835 Pediatric Dysphagia This course will provide students with knowledge and resources necessary to effectively evaluate and treat feeding and swallowing disorders in medically complex infants and children in medical, school, and home settings. Normal and abnormal anatomy, changes in swallowing physiology from infancy to childhood, evaluation and management techniques, and pertinent research will be covered in the course. Knowledge of head and neck anatomy and physiology as well as basic neuroanatomy is assumed. This course is available to graduate students, doctoral students, and community speech language pathologists. Prereq: 35CSD830 Prereq: 35CSD830. Credit Level: G. Credit Hrs: 2.00

35CSD840 Seminar in Auditory Evoked Potentials (AEP) Basic outcomes and effects of communication disorders on the late auditory evoked potentials and discussion, description of the use of AEP's for both research and applied purposes. Credit Level: G. Credit Hrs: 3.00
Communication Sciences and Disorders

35CSD841 Practice Management in Communication Disorders
Overview of business principles including planning, financing, operations and marketing. Credit Level: G. Credit Hrs: 3.00

35CSD842 Seminar in AEP II
This course covers the latest information on electrophysiology of the auditory system and the clinical application of auditory evoked potentials. Prereq: 35CSD840. Credit Level: G. Credit Hrs: 3.00

35CSD843 Comparative Hearing and Vocal Mechanisms
The primary objective of this course is to familiarize students with the bioacoustics of animal communication and hearing including comparative terrestrial/marine mammal vocal anatomy, physiology and neuroanatomy, sound production mechanisms and acoustic behavior. Prereq: 35CSD619. Credit Level: G. Credit Hrs: 3.00

35CSD863 Directed Problems in Speech/Language Pathology
Projects are designed and supervised by the faculty. Offered ea. qtr. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD864 Directed Problems in Audiology
Projects are designed and supervised by the faculty. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD865 Directed Problems in Speech and Hearing Science
Projects are designed and supervised by the faculty. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD908 Special Topics in Clinical Practice in Audiology
Interactive clinic seminar designed to cover applications of specific theoretical audiological information to everyday clinical practice Credit Level: G. Credit Hrs: 2.00

35CSD911 Clinical Practicum in Speech/Language Pathology
Diagnostic, therapeutic participation in speech/language pathology. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD913 Internship in Speech/Language Pathology
Off-campus experience in speech/language pathology. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD914 School Practicum in Audiology
Supervised experience in educational audiology in a school setting. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD915 School Practicum in Speech-Language Pathology
Supervised experience in providing speech-language services to children in a school setting. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD916 Advanced Clinical Methods in Communication Science
This course is directed toward graduate students in speech/language pathology who have had experience in practicum with persons with communication disorders. Students will review assessment and intervention processes to prepare their portfolios. Credit Level: G. Credit Hrs: 3.00

35CSD920 Clinical Externship in Speech-Language Path II
Full or part-time clinical practicum experience at an off campus site such as a medical setting, school, private practice or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

Communication Sciences and Disorders

35CSD921 Clinical Externship in Speech-Language Path III
Full or part-time clinical practicum experience at an off campus site such as a medical setting, school, private practice or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD923 Clinical Externship in Audiology I
Full-time clinical practicum experience at an off-campus site such as medical setting, school, private practice or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD924 Clinical Externship in Audiology II
Full-time clinical practicum experience at an off-campus site such as medical setting, school, private practice or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD925 Clinical Externship in Audiology III
Full-time clinical practicum experience at an off-campus site such as medical setting, school, private practice or non-profit organization. Credit Level: G. Credit Hrs: 1.00-15.00

35CSD940 Graduate Seminar in Speech Pathology and Audiology
Presentation of graduate student projects, publishable papers, theses or dissertation designs in seminar mode. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD943 Graduate Research Project Communication Disorders I
Research project in Communication Disorders I. Completion of research proposal for thesis or publishable paper. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD944 Graduate Research Project Communication Disorders II
Research Project in Communication Disorders II. Completion of data collection for thesis or publishable paper. Prereq: 35CSD943. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD945 Graduate Research Project Communication Disorders III
Research project in Communication Disorders III. Completion of written document and oral defense of thesis or publishable paper. Prereq: CSD 943, 944. Credit Level: G. Credit Hrs: 1.00-3.00

35CSD946 Research Methods in Communication Disorders
Research project and lectures focus on application of design, analysis and short research report. Review MA thesis and published articles. Credit Level: G. Credit Hrs: 3.00

35CSD983 Doctoral Seminar Research in Communication Disorders I
Pre-dissertation research evaluation, planning and experience. Credit Level: G. Credit Hrs: 3.00

35CSD984 Doctoral Seminar Research in Communication Disorders II
Pre-dissertation research evaluation planning and experience. Prereq: 35CSD983. Credit Level: G. Credit Hrs: 3.00-6.00

35CSD985 Doctoral Seminar Research in Communication Disorders III
Pre-dissertation research evaluation, planning and experience; professional writing emphasized. Prereq: 35CSD984. Credit Level: G. Credit Hrs: 3.00-6.00

35CSD986 Doctoral Seminar in Communication Disorders: Pedagogy
Discussion of issues related to teaching at the college level and guided experience in teaching. Credit Level: G. Credit Hrs: 3.00

H=University Honors course.
Communication Sciences and Disorders

35CS897
Doctoral Seminar in Communication Disorders: Supervision
Discussion of issues related to supervision and guiding experience on supervision of student practicum in Communication Disorders. Credit Level: G. Credit Hrs: 3.00

35CS898
Doctoral Seminar in Communication Disorders: Grant Writing
Review of granting agencies, funding sources, grants and guided experience on grant writing. Credit Level: G. Credit Hrs: 3.00

35CS899
Topics in Language, Speech and Hearing Disorders
This is a research seminar in which students present, defend and critique recent research articles on hot topics in Speech-Language Pathology and Audiology. Topics vary according to student interest. Credit Level: G. Credit Hrs: 1.00

35CS990
Multivariate Statistics for Communication Sciences and Disorders
Advanced level statistics course for CSD doctoral students with intro/intermediate background in univariate statistics and research design. Credit Level: G. Credit Hrs: 3.00

35CS991
Doctoral Dissertation Research
Degree candidates only. Credit Level: G. Credit Hrs: 1.00-15.00

35CS992
Doctoral Dissertation Research
Degree candidates only. Credit Level: G. Credit Hrs: 1.00-15.00

35CS993
Doctoral Dissertation Research
Degree candidates only. Credit Level: G. Credit Hrs: 1.00-15.00

Cellular Therapies

35CT831
Foundations for Cellular Therapies I
Instruction on stem cell biology, stem cell collection and storage, positive and negative selection, genetic manipulation, clinical cell transplants, blood groups, infectious disease testing, hazards of transplantations, regulatory issue and quality management. Credit Level: G. Credit Hrs: 2.00

35CT832
Foundations for Cellular Therapies II
Instruction on stem cell biology, stem cell collection and storage, positive and negative selection, genetic manipulation, clinical cell transplants, blood groups, infectious disease testing, hazards of transplantations, regulatory issue and quality management. Credit Level: G. Credit Hrs: 2.00

35CT833
Foundations for Cellular Therapies III
Instruction on stem cell biology, stem cell collection and storage, positive and negative selection, genetic manipulation, clinical cell transplants, blood groups, infectious disease testing, hazards of transplantations, regulatory issue and quality management. Credit Level: G. Credit Hrs: 2.00

35CT841
Cellular Therapies Seminar I
Literature review, written paper and oral presentation of cellular therapies topics. Credit Level: G. Credit Hrs: 2.00

35CT842
Cellular Therapies Seminar II
Literature review, written paper and oral presentation of cellular therapies topic. Credit Level: G. Credit Hrs: 2.00

35CT843
Cellular Therapies Seminar III
Literature review, written paper and oral presentation of cellular therapies topic. Credit Level: G. Credit Hrs: 2.00

35CT851
Cellular Therapies Laboratory/Clinical Pract I
This course provides the practical training and experience in cell processing including Plasma reduction, Red cell reduction, Buffy coat preparation, Controlled rate freezing, T cell depletion, CD34 selection and analysis, Donor Lymphocyte infusion, processing of stem cells for cryopreservation, thawing frozen stem cells for infusion, cell counts using automated and manual equipment, record keeping systems for stem cell products and laboratory management training. Credit Level: G. Credit Hrs: 3.00

35CT852
Cellular Therapies Laboratory/Clinical Pract II
This course provides the practical training and experience in cell processing including Plasma reduction, Red cell reduction, Buffy coat preparation, Controlled rate freezing, T cell depletion, CD34 selection and analysis, Donor Lymphocyte infusion, processing of stem cells for cryopreservation, thawing frozen stem cells for infusion, cell counts using automated and manual equipment, record keeping systems for stem cell products and laboratory management training. Credit Level: G. Credit Hrs: 3.00

35CT853
Cellular Therapies Laboratory/Clinical Pract III
This course provides the practical training and experience in cell processing including Plasma reduction, Red cell reduction, Buffy coat preparation, Controlled rate freezing, T cell depletion, CD34 selection and analysis, Donor Lymphocyte infusion, processing of stem cells for cryopreservation, thawing frozen stem cells for infusion, cell counts using automated and manual equipment, record keeping systems for stem cell products and laboratory management training. Credit Level: G. Credit Hrs: 3.00

35CT861
Cellular Therapies Thesis Research I
Preparation of written research proposal to include a literature review, research plan, materials and methods, data analysis, budget and bibliography. Investigative research in a laboratory or clinical setting. Final written thesis. Credit Level: G. Credit Hrs: 4.00-12.00

35CT862
Cellular Therapies Thesis Research II
Preparation of written research proposal to include a literature review, research plan, materials and methods, data analysis, budget and bibliography. Investigative research in a laboratory or clinical setting. Final written thesis. Credit Level: G. Credit Hrs: 4.00-12.00

35CT863
Cellular Therapies Thesis Research III
Preparation of written research proposal to include a literature review, research plan, materials and methods, data analysis, budget and bibliography. Investigative research in a laboratory or clinical setting. Final written thesis. Credit Level: G. Credit Hrs: 4.00-12.00

Healthcare Administration

35HCA401
Principles of Marketplace Dynamics in Healthcare
The contents of the course will be an analysis of the effects of marketplace principles on health care and the effect of health policy and economic forces on the health care delivery system. The basic principles of competition and marketing will be presented as will the application of these principles as they relate to health care. Students will be taught to use these concepts to analyze market dynamics and improve the delivery of health care services. The effect of changes in market forces, policies, and regulations, workforce, formation of integrated delivery systems, and the impact of technology will be studied. BoK: SS, QR. Credit Level: U. Credit Hrs: 3.00

H=University Honors course.
Healthcare Administration

35HCA732 Health Policy 2: Legal & Ethical Issues
This course presents an introduction to the legal and ethical issues in health services management. Topics include ethics in business and clinical decision making; tools for understanding ethics and ethical analysis; professional and organizational guidelines for ethical decision-making; institutional committees and review boards; conflicts of interest; patient and community concerns; end of life decisions. This course will additionally review legal principles development, application and assessment, resource allocation and social responsibility. Other topics will include liability; health care institutions as corporations; the nature and scope of public health authority; antitrust; fraud and abuse; privacy and confidentiality, tax implications; regulatory oversight; legal requirements for access to health care and nondiscrimination. Prereq: 35HCA701. Credit Level: G. Credit Hrs: 4.50

35HCA782 Guided Study in Health Systems Management
This is a tutorial designed to allow the student who wishes to explore a specific topic within the broad scope of health care management to do so within the framework of the MHA. Students may register from 1 to 3 credit hours per module Credit Level: G. Credit Hrs: 1.00-3.00

Health Information Management

35HIM504 Issues in Healthcare Delivery
This course provides an overview of US health care systems and their many components including organizational structures, mechanisms for health care delivery, health services financing, health policy, quality of health care and health information management. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM506 Health Data Management
This course will provide the methods and technique to manage health care data, to develop documentation guidelines and understand compliance regulations and standards of AHIMA. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM508 Clinical Data Management
This course will focus on evaluating and analyzing clinical data. The course will address clinical classifications, terminologies, and future initiatives in coding. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM510 Applied Reimbursement Methods
This course will focus on anlaysis of reimbursement methods and the role of HIM professionals in revenue cycle management. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM512 Computer Systems in Healthcare
Comprehensive study of computers in healthcare BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM514 Professional Computer Practicum
Supervised computer practicum in a healthcare facility. Emphasis on evaluation of computer applications and utilizing software applications. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM516 Legal and Ethical Issues in Healthcare
Study of legal and ethical issues in healthcare with a focus on practical applications in health information management BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM518 Electronic Health Records
Study of the design and implementation of the electronic health record BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM520 Human Resource Management
Applications in managing health information management (HIM) departments in healthcare facilities. Students will apply theories and utilize best practices to the management of human resources. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM522 Professionalism and Leadership
Study of the management of change, team building, and leadership development related to practice in healthcare. Students will learn skills and outline effective strategies for communication. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM525 Clinical Terminologies and Classification Systems
Analysis of standard clinical terminologies including SNOMED, ICD-10-PCS, medical linguistics, medical vocabulary standards, natural language processing and the role of the healthcare vocabularies and clinical terminologies in the electronic health record. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM526 Financial and Resource Management
Financial aspects of healthcare and accounting principles BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM528 Strategic Planning and Organizational Development
Course will focus on strategic and operational plans in healthcare. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM530 Project and Operations Management
Application of project management techniques and implementing process engineering BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM532 Statistics and Research Methods
Analysis and presentation of data and introduction to research methods. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM534 Quality Management and Performance Improvement
Advanced study of the application of QI tools, evaluation of documentation standards, quality improvement, utilization and risk management, and credentialing. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM536 Capstone: Contemporary Issues in HIM
Discussion of emerging issues and trends in the health information management (HIM) field. Integrate studies and apply knowledge to problems and issues facing the HIM profession. BoK: NA. Credit Level: U. Credit Hrs: 5.00

35HIM538 Professional HIM Practicum
Professional practice course provides the student with the opportunity to integrate knowledge, behaviors, and professional attributes acquired throughout the curriculum that are necessary to the practice of HIM. The student will be involved in developing insight and skill in HIM management. BoK: NA. Credit Level: U. Credit Hrs: 5.00

Health Sciences

35HLSC172 Musculoskeletal Anatomy
This course is designed to provide the student with a foundation in basic surface anatomy, origins, insertions, actions and nerve supply of the major muscles in the body. Prereq: 15BIOL201. BoK: NS. Credit Level: U. Credit Hrs: 2.00

H=University Honors course.
Health Sciences

35HLSC173  Musculoskeletal Anatomy Laboratory
This laboratory course is designed to provide the student with a foundation in basic surface anatomy, origins, insertions, actions and nerve supply of the major muscles of the body through palpation and the use of other hands-on, experiential learning methods. Prereq:
15BIOL201. Coreq: 35HLSC172. BoK: NS. Credit Level: U. Credit Hrs: 1.00

35HLSC211  Medical Terminology
The course will be instructed online. Students will learn root works, combining forms, and application of learning via worksheets. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC294  Human Behavior in Health & Sickness for Health Related Programs
This course will discuss the various aspects of human behavior in response to illness. Emphasis will be on understanding normal versus abnormal reactions to illness, and therefore being able to apply the most effective therapy regimen. The course will consist of lectures, case studies, and observation of psychiatric evaluations. This course is available to all majors. BoK: SS. Credit Level: U. Credit Hrs: 3.00

35HLSC330  Introduction to Biomechanics
This course will introduce students to the basic terminology in biomechanics. The forces that act on the body during static and dynamic activities will be emphasized. Information mastered will be applied to whole body function. Prereq: 15PHYS103, 35HLSC172. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC333  Computers and Equipment in Biomechanics
This course will introduce students to the equipment and procedures used to measure movement and force. This lab-based class emphasizes techniques used in research and testing in health care settings, including manual and mechanical measurement of force, joint movement, 2D and 3D motion analysis, friction and gravity. Prereq: 35HLSC330. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35HLSC345  Physical Conditioning and Testing
This course covers the guidelines and accepted methods for exercise testing, strength and conditioning established by the American College of Sports Medicine and the National Strength and Conditioning Association. Students will apply knowledge from previous coursework in anatomy and physiology, exercise physiology, biomechanics, and kinesiology. Students will develop exercise protocols / prescriptions using accepted methods of exercise testing and apply knowledge of methods of strength and conditioning training. Prereq: 35HLSC345, 35HLSC412. Coreq: 35HLSC352, 35HLSC413. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC351  Kinesiology I
This course is designed to provide the student with a basic understanding of human movement. Included in this course is an examination of the anatomy of the musculoskeletal system, the structure and function of muscles and associated connective tissue, the structure and function of joints and the application of basic mechanical laws. This course is designed to contribute to the skills sets described by the ACSM and the NSCA as necessary components for entry level certifications. Prereq: 35HLSC330. Coreq: 35HLSC351. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC352  Kinesiology II
A continuation of Kinesiology I, this course is designed to provide the student with a basic understanding of human movement. Included in this course is an examination of the anatomy of the musculoskeletal system, the structure and function of muscles and associated connective tissue, the structure and function of joints, and the application of basic mechanical laws. This course is designed to contribute to the skills sets described by the ACSM and the NSCA as necessary components for entry level certifications. Prereq: 35HLSC351. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC373  Health Care Ethics
This interdisciplinary course considers ethical theories and principles applicable to the allied health professions. Using scholarly inquiry, students will analyze ethical dilemmas that may occur in their professional roles. Students will address ethical issues across the lifespan in diverse socioeconomic and cultural situations. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35HLSC401  Recreation Across the Lifespan I
This course combines classroom study with service learning. Classroom study involves didactic information on aging and the effects of aging on physical activity. The service learning component provides students with weekly first-hand experience in implementing exercise programs for older adults. Students will utilize knowledge from previous coursework in anatomy, physiology, biomechanics, kinesiology, exercise testing, and strength and conditioning, and apply the principles to exercise and activity to the elderly population. This course is designed to contribute to the skills sets described by the ACSM and the NSCA as necessary components for entry level certifications. Prereq: 35HLSC345, 35HLSC413. Coreq: . BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC402S  Recreation Across the Lifespan II
This course is designed to provide the student with the opportunity to apply previous course knowledge in a practical setting working with an adult population. The course will combine classroom activities with independent study and community engagement experiences. The students will apply the principles of exercise testing and prescription, kinesiology, biomechanics, and strength and conditioning in order to provide members of the community with guidance in matters of health and fitness. Prereq: 35HLSC401. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC403  Recreation Across the Lifespan III
Combines on-line independent study with service learning. The on-line independent study portion of the course gives students the opportunity to design exercise programs for individuals of varying fitness levels. The service learning component provides students with weekly first hand experience in implementing exercise programs to members of the community who are between the ages of 5 and 20 years. Students will utilize knowledge from previous coursework in anatomy, physiology, biomechanics, kinesiology, exercise testing & strength & conditioning to the principles in the pediatric population. Prereq: 35HLSC402. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC411  Physiology of Exercise I
Physiology of Exercise is the study of the human body's short term responses and its long term adaptations to exercise. This is the first course in a sequence of three that will investigate the human body's bio energy systems, the utilization during exercise and the application of these systems towards performance enhancement. Prereq: 15CHEM103, 15BIOL103, 15BIOL203. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC412  Physiology of Exercise II
This course is an extension of Physiology of Exercise I. Cardiovascular physiology as it relates to exercise and ECG interpretation will be a major focus. In addition, special populations, environments, and

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Health Sciences

35HLSC412
Physiology of Exercise II
supplemental aids will be addressed. Prereq: 35HLSC411. BoK: NS. Credit Level: U. Credit Hrs: 3.00

35HLSC413
Physiology of Exercise III
This course is an extension of Physiology of Exercise II. The student will write an exercise prescription using work calculations and ECG data from a cardiorespiratory stress test and other fitness information. A lab component will be a major part of this course. Prereq: 35HLSC412. BoK: NS. Credit Level: U. Credit Hrs: 3.00

35HLSC421
Biomechanics of Sport I
This course is designed to provide the student with an understanding of the biomechanics of movement and sport activities. This includes terminology, an examination of concepts and principles, and performing the observations, analyses and calculations necessary to examine mechanical and performance characteristics of human movements. This course is designed to meet the skill sets described by the ACSM and the NSCA as necessary components for entry level certifications. There is a lecture and a laboratory component to the course. Prereq: 35HLSC352. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC422
Biomechanics of Sport II
This course is designed to provide the student with an increased understanding of human movement as it relates to dynamic activities. Included in this course is an examination of the anatomy of the musculoskeletal system, the structure and function of joints and the application of basic mechanical laws. This course is designed to contribute to the skill sets described by the ACSM and the NSCA as necessary components for entry level certifications. Prereq: 35HLSC421. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC423
Special Topics in Sports and Sports Science
To cover topics related to sports biomechanics and exercise science that is not directly related to biomechanics but can effect the athlete or participant Prereq: 35HLSC422. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC499
Behavior and Fitness
This course is designed to provide students with the foundation and skills to facilitate behavior changes and conduct health promotion in the community and corporate setting. Prereq: 35HLSC330, 35HLSC351. Coreq: 35HLSC411, 35HLSC412. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC510
Research Methods
The purpose of this course is to introduce the student to basic research methods and concepts with special emphasis on research for healthcare professionals. Specific method and concepts that will be introduced include basic epidemiological terms, study design, reliability and validity, statistics, and determination of causality. A goal of this course is to help the student interpret scientific literature. Prereq: 15MATH146, 15MATH147. BoK: NA. Credit Level: U. G. Credit Hrs: 3.00

35HLSC520
Senior Project I
Independent study course is a required course for students in the final year of the HLSC program. The course allows each student to work on his/her capstone experience which all health science students must complete prior to graduation. Prereq: 35HLSC510, 35HLSC345. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35HLSC521
Senior Project II
Independent study course is a required course for students in the final year of the HLSC program. The course allows each student to work on his/her capstone experience which all Health Science students must complete prior to graduation. Prereq: 35HLSC520. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC522
Senior Project III
Independent study course is a required course for students in the final year of the HLSC program. The course allows each student to work on his/her capstone experience which all Health Science students must complete prior to graduation. Prereq: 35HLSC521. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC540
Health Science Senior Internship I
This is the first of three classes taken in succession during the senior year which formulate one option for the senior capstone experience. The capstone experience is required for seniors in the Health Sciences program and is designed to bring the student's undergraduate education to a comprehensive and cohesive conclusion. Students will participate in an internship based at a community site for a minimum of 50 hours per quarter. Students will also participate in online and in-class exercises covering behavior, practice and ethics in a professional environment. Students will be assessed at the mid-term and end of each quarter by the course instructor as well as the community site supervisor. Students will also be required to submit a short reflection at the end of the quarter. Prereq: 35HLSC510, 35HLSC345. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35HLSC541
Health Science Senior Internship II
This is the second of three classes taken in succession during the senior year which formulate one option for the senior capstone experience. The capstone experience is required for seniors in the Health Sciences program and is designed to bring the student's undergraduate education to a comprehensive and cohesive conclusion. Students will participate in an internship based at a community site for a minimum of 50 hours per quarter. Students will also participate in online and in-class exercises covering behavior, practice and ethics in a professional environment. Students will be assessed at the mid-term and end of each quarter by the course instructor as well as the community site supervisor. Students will also be required to submit a short reflection at the end of the quarter. Prereq: 35HLSC540. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC542
Health Science Senior Internship III
This is the third of three classes taken in succession during the senior year which formulate one option for the senior capstone experience. The capstone experience is required for seniors in the Health Sciences program and is designed to bring the student's undergraduate education to a comprehensive and cohesive conclusion. Students will participate in an internship based at a community site for a minimum of 50 hours per quarter. Students will also participate in online and in-class exercises covering behavior, practice and ethics in a professional environment. Students will be assessed at the mid-term and end of each quarter by the course instructor as well as the community site supervisor. Students will also be required to submit a short reflection at the end of the quarter. Prereq: 35HLSC541. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSC567
Motor Learning for Performance
Online course with lectures, independent study, and guided lab activities that will focus on individual differences and information processing in the principles of motor control. The process of skill learning from preparation to feedback will be discussed. BoK: NA. Credit Level: U. G. Credit Hrs: 3.00

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Health Sciences

35HLSJC570
Rational & Irrational Use of Drugs of Abuse
Course will provide a basic understanding of how drugs that act on the brain produce their effects. The pharmacological, medical & social aspects of these drugs will be discussed. Emphasis will be placed on understanding how drugs act to produce desirable effects & undesirable or toxic effects. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35HLSJC600
Independent Study
Independent study into an area of interest (health sciences, biomechanics or rehabilitation sciences) to the student BoK: NA. Credit Level: U. Credit Hrs: 1.00-4.00

Interdisciplinary Health Education

35HLTH101
Success in Allied Health I
A continuation of Freshman Orientation. Subjects to be covered include but are not limited to academic survival skills, interpersonal relationships, campus life outside the classroom and career decisions. BoK: HU. Credit Level: U. Credit Hrs: 2.00

35HLTH101S
Success in Allied Health II
This course is designed for first year students in CAHS to gain an understanding of the foundation of service learning. Students will learn professional skills to be successful in allied health professions. Students will prepare for service experiences in HLTH103 to enhance learning and increase understanding of the method and value of civic engagement and social responsibility. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35HLTH103S
Success in Allied Health III
This course offers service experiences to CAHS first year students in the practice of allied health professions. Students will complete service learning experiences within the diverse communities where we study, work, and live to facilitate the growth of professional skills and abilities needed to be successful in allied health professions. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35HLTH350
Aging: An Interdisciplinary Approach
This course provides Allied Health Science students and others with an introduction to the interdisciplinary field of Gerontology. Topics include theories of aging, health, and illness in later life, caregiving, diversity, and aging, and bio/psycho/social and spiritual aspects of aging. BoK: SS., SE. Credit Level: U. Credit Hrs: 3.00

35HLTH373
Health Care Ethics
This interdisciplinary course considers ethical theories and principles applicable to nursing, pharmacology, and the allied health professions. Using scholarly inquiry, students will analyze ethical dilemmas that may occur in their professional roles. Students will address ethical issues across the lifespan in diverse socioeconomic and cultural situations. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35HLTH650
Case Studies in Interdisciplinary Health Care
An interdisciplinary course designed to provide hands-on experience in the concepts and rationale or interdisciplinary care. Emphasis is placed on the essential need for interdisciplinary care and effective communication among the disciplines. BoK: DC., SE. Credit Level: U. G. Credit Hrs: 3.00

35HLTH660
Health Care Delivery Systems
This course is a broad overview of the U.S. health care system and its many components including organizational structures, mechanisms for health care delivery, health services financing, determinants of health

Interdisciplinary Health Education

35HLTH660
Health Care Delivery Systems
and health status, health policy, and quality of health care. BoK: HU. Credit Level: U. G. Credit Hrs: 2.00-5.00

35HLTH680
Legal Aspects of Health Care
This course explores the legal and regulatory environment within which health care providers and professionals must operate. BoK: NA. Credit Level: U. G. Credit Hrs: 3.00

Nutrition Sciences

35NUTR176
Food Science I
Basic culinary techniques, and menu planning; introduction to the study of the physical and chemical properties and sensory evaluation of food. Lecture and lab. BoK: NA. Credit Level: U. Credit Hrs: 4.00

35NUTR240
Personal Nutrition
This course is designed for majors and non-majors. The course will provide an overview of nutrient metabolism and review important functions of nutrients on life processes and the role of nutrients on health and disease. Tools to evaluate and analyze personal nutrition will be discussed. BoK: NS. Credit Level: U. Credit Hrs: 3.00

35NUTR241
Principles of Nutrition
This course will review the scientific principles of nutrition with an emphasis on macronutrient and micronutrient metabolism and functions. The course includes an introduction to the basic methods of nutritional assessment. Prereq: 35NUTR240. BoK: NS. Credit Level: U. Credit Hrs: 3.00

35NUTR252
Lifecycle Nutrition
Nutritional needs to support growth and development from conception through adulthood and aging. Prereq: 35NUTR240. BoK: NS. Credit Level: U. Credit Hrs: 3.00

35NUTR282
Explore Dietetics & Nutrition
Introduction to the field of Dietetics and Nutrition in relation to its history and practices in the health care system. An overview of policies, procedures and curricula in the Department of Nutritional Sciences will be provided. BoK: NA. Credit Level: U. Credit Hrs: 1.00

35NUTR376
Food Science II
The study of the chemical and physical properties of food; the effects of processing on nutritive value; and sensory evaluation of foods. Prereq: 35NUTR176. BoK: QR. Credit Level: U. Credit Hrs: 4.00

35NUTR381
Communication Skills in Nutrition
Basic techniques of oral and written communication skills used in the field of nutrition. Includes oral presentations, interviewing and counseling techniques; development of lesson plans. Prereq: 35NUTR240. BoK: HU. Credit Level: U. Credit Hrs: 3.00

35NUTR382
Nutritional Assessment Methods
This course will provide students with an in-depth look at the major assessment techniques including dietary, anthropometric, physical and biochemical methods for assessing nutritional status. Students gain practical experience in applying specific assessment techniques to various disease states, including cardiovascular disease, diabetes gastrointestinal disease and renal disease. Prereq: 35NUTR252, 35NUTR603. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35NUTR476
Quantity Foods
Planning of institutional menus, including purchasing, preparation, and

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Nutrition Sciences

35NUTR476
Quantity Foods
service of food. Lec. and lab. Prereq: 35NUTR376. BoK: QR. Credit Level: U. Credit Hrs: 4.00

35NUTR482
Professional Seminar
Discussion of goal setting, portfolio development, resume preparation, interviewing skills, and other topics related to professional development. Assist students in portfolio preparation to fulfill requirement for capstone experience for Dietetics and Food and Nutrition majors. BoK: NA. Credit Level: U. Credit Hrs: 2.00

35NUTR572
Projects and Problems in Nutrition
A course designed to allow students to pursue an individualized learning project with approval of and under supervision of a faculty member. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-6.00

35NUTR575
Community Nutrition
Nutrition programs in the community and fundamentals of nutrition care delivery. Includes nutrition assessment, nutrition education and design of programs. Prereq: 35NUTR240. BoK: SS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR578
Institutional Management

35NUTR580
Nutrition Practicum
Field experiences in areas of Nutrition, Nutrition and Business, Food Service, Management, or Nutrition and Exercise. Must be pre-arranged with instructor one quarter prior to enrollment. Senior standing. Majors only. BoK: NA. Credit Level: U, G. Credit Hrs: 2.00

35NUTR582
Internship Seminar
Discussion of the dietetic internship application process, including a review of internship requirements, introduction to specific internship alternatives, and assistance with completion of application requirements. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35NUTR600
Advanced Nutrition I
In-depth study of the biochemical and physiological functions of energy, protein, fat and carbohydrates. Prereq: 28CHEM206, 15BIOL203. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR601
Advanced Nutrition II
In-depth study of the biochemical and physiological functions of vitamins. Prereq: 35NUTR600. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR602
Advanced Nutrition III
In-depth study of the biochemical and physiological functions of minerals. Review of role of phytochemicals in nutrition and health. Prereq: 35NUTR601. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR603
Medical Nutrition Therapy I
Nutrition therapy and diet modifications for pathological conditions. Includes nutrition care planning and medical record documentation. Prereq: 35NUTR600, 15BIOL203. BoK: NS. Credit Level: U. G. Credit Hrs: 3.00

35NUTR604
Medical Nutrition Therapy II
Nutrition therapy and diet modifications for pathological conditions. Includes nutrition care planning for cardiovascular disease, diabetes, hypertension and chronic obstructive pulmonary disease. Prereq: 35NUTR603. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR605
Medical Nutrition Therapy III
Nutritional therapy and diet modifications for pathological conditions. Includes nutrition care planning for gastrointestinal diseases, diseases of the liver and kidney and cancer therapeutics. Prereq: 35NUTR604. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR650
Nutrition and Exercise
Study of interactions between nutrition and exercise with emphasis on health promotion and fitness. Prereq: 35NUTR240. BoK: NS. Credit Level: U, G. Credit Hrs: 3.00

35NUTR685
Nutrition Research Methods
Methodologies and practicum experience related to conducting nutrition research. Prereq: 15MATH146. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35NUTR691
Supervised Practice Experience I
Individually assigned site rotations that enable the student to demonstrate entry-level dietitian competence by attaining all of the Commission on Accreditation for Dietitians Education Core Competencies. Students work with, and are evaluated by, a number of site preceptors. Participation is required in weekly programs designed to enhance the supervised practice experience. BoK: NA. Credit Level: U, G. Credit Hrs: 6.00

35NUTR692
Supervised Practice Experience II
Individually assigned site rotation that enable the student to demonstrate entry-level dietitian competence by attaining all of the Commission on Accreditation for Dietitians Education Core Competencies. Students work with, and are evaluated by a number of site preceptors. Participation is required in weekly programs designed to enhance the supervised practice experience. Prereq: 35NUTR691. BoK: NA. Credit Level: U, G. Credit Hrs: 15.00

35NUTR693
Supervised Practice Experience III
Individually assigned site rotations that enable the student to demonstrate entry-level dietitian competence by attaining all of the Commission on Accreditation for Dietitians Education Core Competencies. Students work with, and are evaluated by, a number of site preceptors. Participation is required in weekly programs designed to enhance the supervised practice experience. Prereq: 35NUTR692. BoK: NA. Credit Level: U, G. Credit Hrs: 15.00

35NUTR694
Supervised Practice Experience IV
Individually assigned site rotations that enable the student to demonstrate entry-level dietitian competence by attaining all of the Commission on Accreditation for Dietitians Education Core Competencies. Students work with, and are evaluated by, a number of site preceptors. Participation is required in weekly programs designed to enhance the supervised practice experience. Prereq: 35NUTR693. BoK: NA. Credit Level: U, G. Credit Hrs: 15.00

35NUTR782
Nutrition Strategies for Behavior Change
Understanding and application of theoretical frame works from the behavioral sciences to design nutrition intervention programs to various groups and to facilitate the adoption of healthful behaviors. Prereq: 35NUTR240. Credit Level: G. Credit Hrs: 3.00

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Nutrition Sciences

35NUTR783
Macronutrients
An in-depth examination of energy and macronutrient metabolism. Prereq: 28CHEM206. Credit Level: G. Credit Hrs: 3.00

35NUTR784
Vitamin Nutrition
For each vitamin, consideration will be given to structure, sources, digestion, absorption, transport, functions and mechanisms of action, metabolism and excretion, recommended dietary allowance or dietary reference intake, deficiency, toxicity, and assessment of nutrient. Prereq: 28CHEM206. Credit Level: G. Credit Hrs: 3.00

35NUTR785
Mineral Nutrition
A course that will allow students to demonstrate a gain in knowledge related to the biochemical and physiological aspects of mineral nutrition. A discussion of current research related to mineral nutrition. Prereq: 28CHEM206. Credit Level: G. Credit Hrs: 3.00

35NUTR786
Advanced Clinical Nutrition
This course is based on a knowledge of macro-nutrient metabolism, physiology & biochemistry. Chronic and acute diseases that involve diet therapy will be examined from the standpoint of understanding the disease state and the current nutritional approaches to preventing and/or managing the disease. Prereq: 35NUTR783, 29NURS820. Credit Level: G. Credit Hrs: 3.00

35NUTR787
Topics in Nutrition Research
Students will learn the skills required to critically evaluate current nutrition research through reading research articles, interpreting results and conclusions, and searching for relevancy literature. Prereq: 35NUTR240. Credit Level: G. Credit Hrs: 3.00

35NUTR788
Methods in Nutritional Assessment
The aims of this course are to provide the skills for understanding and evaluating the dietary, clinical, and biochemical components in the assessment of nutritional status of individuals and communities. Prereq: 35NUTR783, 35NUTR784. Coreq: 35NUTR785. Credit Level: G. Credit Hrs: 3.00

35NUTR7871
Individual Study in Food and Nutrition
Individual research on a problem in the area of food and nutrition. Credit Level: G. Credit Hrs: 1.00-9.00

35NUTR7872
Readings in Food and Nutrition
A selected program of readings regarding major research contributions in the area of food and nutrition when there is no opportunity in a regularly scheduled class to pursue such an investigation. Credit Level: G. Credit Hrs: 1.00-9.00

35NUTR7874
Masters Thesis Guidance
A research investigation. Credit Level: G. Credit Hrs: 1.00-6.00

Physical Therapy

35PT831
Pathophysiology I
This course emphasizes the pathophysiology of the musculoskeletal and integumentary systems as related to the practice of physical therapy. Credit Level: G. Credit Hrs: 3.00

35PT832
Pathophysiology II
This course emphasizes the pathophysiology of the cardiovascular, pulmonary gastrointestinal and renal systems as related to the practice of physical therapy. In addition, the pathophysiology of blood and lymphatic disorders will also be discussed. Credit Level: G. Credit Hrs: 3.00

35PT833
Pathophysiology III
This course emphasizes the pathophysiology of the nervous system as related to the practice of physical therapy. In addition, the pathophysiology of blood and lymphatic disorders will also be discussed. Credit Level: G. Credit Hrs: 3.00

35PT834
Pharmacology
This course covers the basic principles of pharmacology including pharmacokinetics. Drugs used to treat various system disorders, including disorders of the musculoskeletal, cardiovascular, pulmonary, gastrointestinal, integumentary, renal and nervous systems will be discussed. Drug treatment of pain and inflammation will also be covered. Credit Level: G. Credit Hrs: 2.00

35PT835
Physiology, Pathology and Pharmacology V
This section discusses selective topics and case studies of various medical conditions. Emphasis on recognizing and management of medical emergencies will be discussed thoroughly. Credit Level: G. Credit Hrs: 2.00

35PT841
Movement Science I
This course will introduce students to the concepts of motor learning and progress to the analysis of static and dynamic activities in the upper quarter. Students will use biomechanical principles to study joint motion and the forces involved in activities of the cervical spine and upper extremity. Credit Level: G. Credit Hrs: 2.00

35PT842
Movement Science II
Students will use biomechanical principles to study joint motion and the forces involved in activities of the thoracic and lumbar spine and lower extremity. The components of gait and posture, including deviations will be covered. Credit Level: G. Credit Hrs: 3.00

35PT843
Movement Science III
Theories and principles of motor control and motor learning, concepts related to recovery of function and plasticity, models of disablement will be covered. Conceptual frameworks for clinical practice, normal aging and abnormal postural control and balance, and an introduction of constraints on motor control in general neurological impairments will be covered. Applied neuroscience will be the focus of laboratory activities related to motor control and learning. Credit Level: G. Credit Hrs: 3.00

35PT844
Movement Science IV
This course will focus on motor development from conception through old age. The impact of age related changes, including social, psychological and physiological on functional movement will be discussed. Students will be introduced to some common abnormalities and pathologies. The material will be presented primarily in a lecture format although several laboratory sessions, primarily observation, such as observing typical infant development, will be included. Videos and computer assisted learning will also be utilized. Credit Level: G. Credit Hrs: 4.00
Physical Therapy

35PT845
Movement Science V
This course will focus on development from conception through old age. The impact of age related changes, including social, psychologic and physiologic, on functional movement will be discussed. Students will be introduced to some common abnormalities and pathologies, with an emphasis on the pediatric and geriatric populations, as well as appropriate PT intervention. The material will be presented primarily in a lecture format with one laboratory session on infant/child development. Videos and computer assisted learning will also be utilized. Credit Level: G. Credit Hrs: 2.00

35PT846
Patient Management I: Musculoskeletal Conditions
This course will focus on physical therapy evaluation and differential diagnosis in relationship to orthopedic problems of the upper extremity joints. Emphasis will be placed on differential diagnosis, imaging, conservative management and post surgical management of the shoulder, elbow and wrist/hand. Credit Level: G. Credit Hrs: 4.00

35PT847
Patient Management II: Musculoskeletal Conditions
This course will focus on physical therapy evaluation and differential diagnosis in relationship to orthopedic problems of the lower extremity joints. Emphasis will be placed on differential diagnosis, imaging, conservative management and post surgical management of the hip, knee, and ankle. Credit Level: G. Credit Hrs: 3.00

35PT848
Patient Management III: Musculoskeletal Conditions
This course will focus on the physical therapy examination, evaluation, diagnosis, prognosis, intervention, reexamination, outcomes, and criteria for discharge in patients with spinal and TMJ dysfunctions. Emphasis will be placed on differential diagnosis, imaging, common conservative/postoperative management and interventions of lumbosacral, sacroiliac, thoracic, cervical and temporomandibular disorders. Spinal joint mobilization will be mastered. Primary prevention/risk factor reduction strategies for the specific patient/client diagnostic groups will also be covered. Credit Level: G. Credit Hrs: 3.00

35PT856
Patient Management I: Neuromuscular Conditions
Techniques of examination (history, systems review, and tests and measures) and evaluation of patients and clients with impaired motor function and sensory integrity associated with congenital, acquired and progressive disorders of the central nervous system throughout the life span will be covered. The theoretical and research basis for treatment approaches of the above patient/client problems will also be covered. The identification of problems and their possible solutions, the implementation of the solutions, and alternative treatments will be emphasized. Credit Level: G. Credit Hrs: 4.00

35PT857
Patient Management II: Neuromuscular Conditions
A continuation of Neuromuscular Conditions I. Topics covered will include rehabilitation concepts and the special needs of the patient, evaluation, utilization of imaging, and treatment planning of patients with neuromuscular disorders, including TIA, CVA, TBI, Parkinson's Disease, MS, ALS as well as acute or chronic polyneuropathies including Guillain-Barre syndrome and post-poli syndrome. Credit Level: G. Credit Hrs: 5.00

35PT858
Patient Management III: Neuromuscular Conditions
A continuation of Neuromuscular Conditions II. Topics covered will include rehabilitation concepts and the special needs of the patient, evaluation, utilization of imaging, and treatment planning of adults and children with neuromuscular disorders, including SCI, myelodysplasia and cerebral palsy. Additionally, wheelchair prescription and adaptations utilized with clients with neuromuscular dysfunction will be covered. Credit Level: G. Credit Hrs: 5.00

Physical Therapy

35PT860
Introduction to Applied Anatomy
This course is a two and one half week session designed as a prelude to the subsequent two quarters of Applied Anatomy. The student will be given an introduction to concepts fundamental to human gross anatomy including anatomical terminology, cross sectional anatomy, radiology and dissection skills. Student conducted cadaver dissections and prossections will be used to facilitate the student's understanding of structure, location and function of organs, muscles and other anatomic structures. The course will be taught using a regional approach. The regions to be covered in this session are the back, pectoral region and an introduction to the upper extremity. Case studies relating anatomy to clinical findings will be considered on a regular basis during student led discussions. Credit Level: G. Credit Hrs: 2.00

35PT861
Applied Anatomy I
During this course, the student will be given an introduction to concepts fundamental to human gross anatomy including anatomical terminology, cross sectional anatomy, radiology and dissection skills. Student conducted cadaver dissections and prossections & anatomical models will be used to facilitate the student's understanding of structure, location & function of muscles, blood vessels, nerves, organs & other anatomic structures. The course will be taught using a regional approach. The regions to be covered are vertebral column, upper extremity and thorax. Credit Level: G. Credit Hrs: 3.00

35PT862
Applied Anatomy II
This course follows Applied Anatomy I and continues an in-depth investigation into normal human anatomy. Student-conducted cadaver dissections, prossections and anatomical models will be used to facilitate the student's understanding of structure, location & function of muscles, blood vessels, nerves, organs & other anatomic structures. The regions to be covered in this session are the abdomen, pelvis/perineum & the lower extremity. Case studies relating anatomy to clinical findings will be considered on a regular basis during student-led discussions. Credit Level: G. Credit Hrs: 4.00

35PT863
Applied Anatomy III
This course will cover the basic functional anatomy of the human nervous system. Emphasis will be placed on the structure and function of the major components of the central, autonomic & peripheral nervous system diseases & dysfunctions. Student-conducted cadaver dissections, prossections, brain sections & anatomical models will be used to facilitate the student's understanding of structure, location & function of organs, muscles & other anatomic structures. Credit Level: G. Credit Hrs: 4.00

35PT865
Patient Management I: Medical Conditions (Integumentary)
Topics covered will include rehabilitation concepts and the special needs of the patient with integumentary problems, including evaluation, documentation, and treatment planning of patients with wounds and burns. Peripheral Vascular disease examination and intervention will also be covered. Credit Level: G. Credit Hrs: 3.00

35PT866
Patient Management II: Medical Conditions (Acute Care)
This course will cover the examination, evaluation, diagnosis, prognosis, and intervention of patients with acute medical conditions, co-morbidities, and other conditions, including the normal and abnormal function of the cardio-pulmonary system. Elements of patient management within the acute care setting will be addressed including elements of patient management with primary and secondary diagnosis involving the cardiopulmonary system. Credit Level: G. Credit Hrs: 4.00

35PT867
Patient Management III: Medical Conditions (Rehabilitation)
Topics covered will include rehabilitation concepts and the special needs of the patient with amputation, including evaluation,
Evidence Based Physical Therapy I
The purpose of this course is to introduce the student to research methods and concepts with special emphasis on critically analyzing evidence. The course will focus on various aspects of clinical or epidemiological research in the field of physical therapy. Students in this course will be expected to: 1) critically analyze evidence, both current cumulative evidence and individual published articles; and 2) apply this evidence to clinical cases. Specific methods and concepts that will be introduced include epidemiological terms and concepts, study design, reliability and validity, and statistics (descriptive, analytical, parametric, and nonparametric). Credit Level: G. Credit Hrs: 3.00

Evidence Based Physical Therapy II
This course will focus on various aspects of clinical or epidemiological research in the field of physical therapy. This class applies topics learned in EBPT I and integrates them into clinical decision making. The emphasis in EBPT II will be on interventions, tests and measures learned or being currently learned during the Patient Management series (Neuromuscular, Acute and Integumentary). Throughout this class, you may find it useful to review the notes and textbooks you used during these classes. The goals of this class are 1) to critically analyze evidence, both current cumulative evidence and individual published articles; and 2) apply this evidence to clinical cases. Credit Level: G. Credit Hrs: 2.00

Evidence Based Physical Therapy III
The goal of this class is for you to critically analyze evidence from published articles and apply it to clinical case studies. The course will focus on various aspects of clinical or epidemiological research in the field of physical therapy. Emphasis will be on diagnosis, prognosis, interventions, and tests and measures learned in previous coursework. Credit Level: G. Credit Hrs: 2.00

Examination I
This course introduces students to imaging and the examination process. Students assimilate the language of health care, demonstrating appropriate documentation skills, as they begin the review of the medical record, the interview process and the review of systems. PT related imaging techniques are introduced along with the objective measurements of range of motion and manual muscle testing. Adaptation of these skills to differing populations is included. Credit Level: G. Credit Hrs: 3.00

Examination II
This course expands on the examination and evaluation skills of the upper quarter. Students continue to progress interviewing skills through the collection of pertinent medical history, the viewing of applicable imaging, and the gathering of subjective information. As part of the management of patients with upper quarter symptoms, students continue to conduct appropriate systems reviews and administer appropriate tests & measures. Implications for upper quarter evaluation, diagnosis & prognosis are included. Credit Level: G. Credit Hrs: 4.00

Examination III
This course expands on the examination & evaluation skills of the lower quarter. Students continue to progress interviewing skills through the collection of pertinent medical history, the viewing of applicable imaging, and the gathering of subjective information. As part of the management of patients with lower quarter symptoms, students continue to conduct appropriate systems reviews and administer appropriate tests and measures. Implications for lower quarter evaluation, diagnosis and prognosis are included. Credit Level: G. Credit Hrs: 4.00

Examination IV
This course expands on the examination and evaluation skills. Emphasis is placed on patients with musculoskeletal systems involving the trunk. Students will also integrate basic examination skills related to posture, gait, spasticity, reflexes and development. Variations within populations will be presented. Credit Level: G. Credit Hrs: 4.00

Imaging I
This course covers basic principles and interpretation of diagnostic imaging modalities as they apply to physical therapy. The emphasis is on plain film radiography, including the basic physics of imaging techniques, viewing, interpreting films, radiographic anatomy and clinical correlation with orthopedic patient cases. Other types of imaging, including contrast studies, MRI and CT will be examined. Credit Level: G. Credit Hrs: 1.00

Imaging II
This course covers basic principles and interpretation of diagnostic imaging modalities as they apply to physical therapy. The emphasis is on the basic physics of imaging techniques, viewing, interpreting films, radiographic anatomy and clinical correlation with patient cases on the chest, abdomen, genitourinary system, and the brain. Other types of imaging including contrast studies, MRI, and CT will be studied. Credit Level: G. Credit Hrs: 1.00
The PT Practice III experience will offer an opportunity for greater student is expected to be much more comprehensive in his/her practice. Evaluation/assessment findings, problem identification and prioritization, functional goal setting, implementation of appropriate treatment plans, and modification of treatment plans/ intervention via evaluation of effectiveness through ability to monitor outcomes. PT Practice IV will serve as a capstone experiences. Students should be comprehensive in their practice and largely entry-level in all areas. Credit Level: G. Credit Hrs: 1.00-10.00

35PT889 Interventions III

Students will master the principles of exercise, strengthening, stretching, and advanced therapeutic exercise techniques. The use of basic evaluation techniques to select appropriate exercises will be covered as well as the physiological response to exercise. Theories, advantages, and indications of several approaches will be discussed. Patient problems will be utilized for students to develop exercise programs and become familiar with functional progression. Students will utilize evaluation findings and literature to justify exercises in treatment plan. Credit Level: G. Credit Hrs: 4.00

35PT901 Physical Therapy Practice I

This course will consist of a four-week full-time clinical affiliation experience. The experience is specifically designed to assist the student to begin achieving the competency necessary to work as an entry-level physical therapist; however, the focus of the clinical experience is on the application of evidence and research in the clinical setting. The affiliation will take place in facilities specifically selected by the program to allow the students orientation to evidence-based practice. Credit Level: G. Credit Hrs: 1.00-10.00

35PT902 Physical Therapy Practice II

This experience is designed to assist the student in achieving the competency necessary to work as an entry-level PT. This course will consist of a ten-week full-time clinical affiliation experience in inpatient or outpatient facilities. Students will work under the supervision of an experienced PT, evaluating patients, giving input to the interpretation of evaluation findings, making progress toward the setting of appropriate functional goals, implementing an appropriate treatment plan and participating in the modification of the treatment plan through the evaluation of its effectiveness. Credit Level: G. Credit Hrs: 1.00-10.00

35PT903 Physical Therapy Practice III

This experience is designed to assist the student in achieving the competency necessary to work as an entry-level PT. This course will consist of a ten-week full-time clinical affiliation experience in inpatient or outpatient facilities. Specialty areas may include, but not be limited to, skilled nursing facilities, extended care facilities, home health, sports medicine clinics, pediatric settings or freestanding rehab facilities. Students will be supervised by an experienced PT who will facilitate their skills in patient/client evaluation, interpretation of evaluation/assessment findings, problem identification and prioritization, functional goal setting, implementation of appropriate treatment plans, and modification of treatment plan/intervention via evaluation of effectiveness through ability to monitor outcomes. The PT Practice V is the final capstone experience the student will have in the program. The student should be at entry-level competence in the practice of physical therapy. Credit Level: G. Credit Hrs: 1.00-10.00

35PT911 Clinical Research I

The goal of this class is to prepare students to conduct their research capstone project. The majority of students will conduct a case study as their capstone project. This course will review research methodology with the focus of conducting a clinical case study. Students will be introduced to scientific writing techniques. In order to prepare the students for the research capstone project, they will be assigned a simulated clinical patient (written) and be asked to design a case study for that patient including conducting a literature search. Finally, during this quarter students will be assigned a faculty advisor and begin to identify a possible capstone project. The faculty advisor will be the instructor through the Clinical Research II-V. The culmination of the Clinical Research series will be a research capstone project that the students will present (either poster or oral) at the annual College of Allied Health Sciences research day, PRAISE. In addition, the faculty advisor may request that the student submit the case study for future dissemination in a peer reviewed journal or at a conference. Credit Level: G. Credit Hrs: 1.00-3.00

35PT912 Clinical Research II

The goal is to guide the student's progress toward completion of the research capstone project. The faculty advisor is the instructor for the series of Clinical Research II-V. Students have the option of choosing to complete a case study or making a contribution to the American Physical Therapy "Hooked on Evidence" site. The capstone project is the culmination of the Clinical Research course series. Completion of the capstone will require students to search the literature in a specific area of physical therapy practice, analyze and critically evaluate the

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Physical Therapy

35PT912
Clinical Research II
The goal is to guide the student's progress toward completion of the research capstone project. The faculty advisor is the instructor for the series of Clinical Research II-V. Students have the option of choosing to complete a case study or making a contribution to the American Physical Therapy "Hooked on Evidence" site. The capstone project is the culmination of the Clinical Research course series. Completion of the capstone will require students to search the literature in a specific area of physical therapy practice, analyze and critically evaluate the literature, and apply the knowledge gained from the literature in a scientific manner to the appropriate population. Results of the capstone project will be presented in a poster or oral format at the College of Allied Health Sciences annual student PRaISE conference. In addition, the faculty advisor may request that the student submit the capstone project for future dissemination in a peer reviewed journal or at a conference. Assignment of the faculty advisor and identification of a capstone project occurs during Clinical Research I. Credit Level: G. Credit Hrs: 1.00-3.00

35PT913
Clinical Research III
The goal is to guide the student's progress toward completion of the research capstone project. The faculty advisor is the instructor for the series of Clinical Research II-V. Students have the option of choosing to complete a case study or making a contribution to the American Physical Therapy "Hooked on Evidence" site. The capstone project is the culmination of the Clinical Research course series. Completion of the capstone will require students to search the literature in a specific area of physical therapy practice, analyze and critically evaluate the literature, and apply the knowledge gained from the literature in a scientific manner to the appropriate population. Results of the capstone project will be presented in a poster or oral format at the College of Allied Health Sciences annual student PRaISE conference. In addition, the faculty advisor may request that the student submit the capstone project for future dissemination in a peer reviewed journal or at a conference. Assignment of the faculty advisor and identification of a capstone project occurs during Clinical Research I. Credit Level: G. Credit Hrs: 1.00-3.00

35PT914
Clinical Research IV
The goal is to guide the student's progress toward completion of the research capstone project. The faculty advisor is the instructor for the series of Clinical Research II-V. Students have the option of choosing to complete a case study or making a contribution to the American Physical Therapy "Hooked on Evidence" site. The capstone project is the culmination of the Clinical Research course series. Completion of the capstone will require students to search the literature in a specific area of physical therapy practice, analyze and critically evaluate the literature, and apply the knowledge gained from the literature in a scientific manner to the appropriate population. Results of the capstone project will be presented in a poster or oral format at the College of Allied Health Sciences annual student PRaISE conference. In addition, the faculty advisor may request that the student submit the capstone project for future dissemination in a peer reviewed journal or at a conference. Assignment of the faculty advisor and identification of a capstone project occurs during Clinical Research I. Credit Level: G. Credit Hrs: 1.00-3.00

35PT915
Clinical Research V
The goal is to guide the student's progress toward completion of the research capstone project. The faculty advisor is the instructor for the series of Clinical Research II-V. Students have the option of choosing to complete a case study or making a contribution to the American Physical Therapy "Hooked on Evidence" site. The capstone project is the culmination of the Clinical Research course series. Completion of the capstone will require students to search the literature in a specific area of physical therapy practice, analyze and critically evaluate the literature, and apply the knowledge gained from the literature in a scientific manner to the appropriate population. Results of the capstone project will be presented in a poster or oral format at the College of Allied Health Sciences annual student PRaISE conference. In addition, the faculty advisor may request that the student submit the capstone project for future dissemination in a peer reviewed journal or at a conference. Assignment of the faculty advisor and identification of a capstone project occurs during Clinical Research I. Credit Level: G.
This course builds upon Generalist Social Work Practice I by using systems theory and the problem-solving framework for generalist social work practice with diverse groups - people of color, gays and lesbians, older adults, people with disabilities, and Appalachians. BoK: DC. Credit Level: U. Credit Hrs: 3.00

35SW352 Generalist Social Work Practice II
This course prepares students for entry-level professional social work practice with individuals at the generalist level. The course uses an ecological perspective and incorporates the strengths and resources of individuals when assessing human needs. Emphasis is placed on utilizing interventions and methods based on a holistic conception of the person within the social environment. The helping process is examined in-depth, focusing on the generic knowledge and skills needed for effective engagement, assessment, planning, intervention, evaluation and termination. Attention is given to issues of human diversity, social justice, and populations-at-risk. BoK: SE., DC. Credit Level: U. Credit Hrs: 3.00

35SW353 Generalist Social Work Practice III
This course uses systems theory and the problem solving framework for generalist social work practice with organizations and communities. Knowledge of the bio-psycho-social model of human development is integrated within an ecological perspective, where human problems are conceptualized as dynamic interchanges between the person and the environment; specifically the organizations to which one is connected, and the communities in which they are embedded. Prereq: 35SW351, 35SW352. BoK: SE, DC. Credit Level: U. Credit Hrs: 3.00

35SW410 Social Work with Adolescents
This course introduces students to social work practice with adolescents. Development theories and challenges of this stage of development will be examined, including identity formation, gender sexuality, substance use, and other high risk behaviors. Skills in relationship building with adolescents will be emphasized. BoK: NA. Credit Level: U. Credit Hrs: 3.00

35SW441 Research I
This course introduces the scientific method of inquiry. The research process, the identification of variables, the sampling plan, and the development of data collection instruments require careful thought. Students will examine the influence of personal values on conceptualization of research questions and the need to appreciate human diversity when designing research studies. BoK: SE., DC. Credit Level: U. Credit Hrs: 3.00

35SW442 Research II
This course provides the student with an in-depth examination of research methodologies employed in social work practice. In particular, investigation methods used at the Macro and Micro levels of practice will be explored. The influence of personal values, the organizational context, and human diversity on the formulation and implementation of research will be a primary focus. Students will also explore the uses of information technology for the purpose of data collection/analysis, information management, and information retrieval. Prereq: 35SW441. BoK: SE, DC. Credit Level: U. Credit Hrs: 3.00

35SW452 Senior Field Seminar I
The first of a three course sequence focused on integrating knowledge, skills, and values learned in the classroom with experiences in the concurrent field placement. Attention is given to understanding informal and formal structures, policies, and organizational roles affecting the entry-level social worker's practice. Students will understand how the foundations of social work knowledge, including human development diversity issues, and values and ethics, are operationalized within the organizational structure. Students will discuss their experiences in their agency and critically analyze their role in the delivery of services to or on behalf of clients. BoK: SE., DC. Credit Level: U. Credit Hrs: 3.00

35SW453 Senior Field Seminar II
The second of a three course sequence designed to facilitate the integration of classroom learning with the field placement experience. Emphasis is placed on refinement of the generalist practice skills of assessment, goal-setting and contracting and selection and implementation of interventions. The use of research-based knowledge to inform practice will be emphasized. Students will have the opportunity to formally present case plans and to develop skills in peer consultation. Prereq: 35SW452. BoK: SE, DC. Credit Level: U. Credit Hrs: 3.00

35SW454 Senior Field Seminar III
This is the final course of a three course sequence designed to facilitate the integration of classroom learning with the field placement experience. Emphasis is placed on refinement of the generalist practice skills of evaluation and termination. Students will have the opportunity to critically examine their development as social workers, demonstrate their understanding of the use of self, personal and professional values, issues of diversity, and the use of theory and
Social Work

35SW454
Senior Field Seminar III
knowledge in practice. Prereq: 35SW452, 35SW453. BoK: SE, DC.
Credit Level: U. Credit Hrs: 3.00

35SW461
Social Work Field Learning I
In consultation with an agency-based field instructor, a set of learning objectives are identified and activities are planned to achieve these objectives. Requires students to work in an agency two days per week. BoK: DC, SE. Credit Level: U. Credit Hrs: 6.00

35SW462
Social Work Field Learning II
See 35SW461 Prereq: 35SW461. BoK: DC, SE. Credit Level: U. Credit Hrs: 6.00

35SW463
Social Work Field Learning III
See 35SW461 Prereq: 35SW462. BoK: DC, SE. Credit Level: U. Credit Hrs: 6.00

35SW473
Social Work Directed Studies
Directed studies and tutorial conferences related to specific areas of social work. Prereq.: Perm. BoK: NA. Credit Level: U. Credit Hrs: 1.00-5.00

35SW500
Emotional Abuse: Assessment and Treatment
This course covers the dynamics of emotional abuse and discusses frameworks for assessment and treatment. Self psychology is one of the theoretical frameworks that will be presented to foster understanding of emotional development BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW501
Narrative Therapy and Social Work Practice
How a narrative therapy, post-modern approach opens up new intervention options for social workers and clients. Emphasis on treating the problem as the problem, not the person as the problem. BoK: Credit Level: U, G. Credit Hrs: 1.00

35SW502
Spirituality in Social Work Practice
This course will focus on how to recognize and appropriately respond to religious and spiritual issues as they emerge in practice. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW503
Social Work and Psychopharmacology
Students will learn the therapeutic effects and possible problems that can result from medication intervention. The effects that mental health medications can have on the counseling/helping relationship will also be explored. BoK: SE. Credit Level: U, G. Credit Hrs: 1.00

35SW504
Grant Writing
This course will help students identify potential funding sources, understand the components of a grant, and learn to write in compliance with grant directives. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW505
Post Traumatic Stress Disorder in Children, Adolescents and Adults
Students will understand the symptomatology of Post Traumatic Stress Disorder, learn the diagnostic process and learn how the disorder impacts individuals, families, and communities. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW506
Grief Theory and Social Work Practice
This course examines the central processes involved in grief. Models for counseling clients in grief will be reviewed with an emphasis on

Social Work

35SW506
Grief Theory and Social Work Practice
identification of unresolved and traumatic grief as well as opportunities for growth during the process of grief. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW507
Domestic Violence I
Study of domestic violence with a focus on gay and lesbian relationships. Also, an exploration of how the criminal justice system treats women who kill their abuser. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW508
Issues of Sexuality
The course will provide an overview of human sexual development and examine the positive and negative impact of sexual behaviors for individuals, families, and society. Social problems related to human sexuality and the role social workers play in addressing these issues will be a primary focus. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW509
Documentation
This course will examine the different types of documentation commonly required of social work practitioners. Legal issues related to documentation will be explored. Attention will be given to the process for conversion of observations into narrative accounts. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW510
Suicide: Assessment and Prevention
This course focuses on assessment of clients who may be considering suicide and the development of interventions to prevent suicide. Known risks for suicide will be outlined and ways to identify persons at risk for suicide will be discussed. Emphasis will be on interviewing strategies to use with clients who may be expressing suicidal ideation. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW511
Adoption
This course will explore different types of adoptions and the laws that regulate the process. Special attention will focus on infant, special needs, and kinship adoption. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW512
Transgender
This course introduces students to the field of transgender studies. Androgyne, transvestism, transsexuality, and other transgender behaviors will be examined as well as social attitudes toward transgender people. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW513
Attention Deficit Hyperactivity Disorder
This course is based upon evidence-based research on treatment efficacy of both psychotherapeutic and psychotropic interventions for individuals with ADHD. The course addresses ADHD in children, adolescents, and adults. A specific focus will be upon social work interventions with various systems levels that impact the individual. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW514
Personal Safety
This course will examine issues of personal safety in the agency and field work settings. In particular, the course will discuss the signs of potential violence and strategies for de-escalation. The course will also provide a range of techniques designed to prevent interpersonal confrontation. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW515
Conflict Resolution
This course will explore strategies for managing and resolving conflicts, contributing to understanding, acceptance and change, and enhance adult and professional relationships. Students will learn conflict

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Social Work

35SW515 Conflict Resolution
resolution strategies through didactic and experiential presentations. Special attention given to Mediation Intervention. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW516 Personality Disorders: Identification and Treatment
Personality disorders affect more than half of the clinical population and social workers are the primary professional group currently delivering services to these clients in therapeutic settings. The correlation between personality disorders and compulsive and addictive disorders demands highly skilled social workers. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00

35SW330 Quantitative Analysis for Social Workers
This course is designed to help students understand the variety of statistical methods and tests used in behavioral science research. Students will develop a basic understanding of statistical software that can be utilized to evaluate clinical practice. BoK: SE. Credit Level: U, G. Credit Hrs: 3.00

35SW550 Loss and Grief
This course examines the central processes involved in loss and grief. Theoretical perspectives and loss and grief across the life span will be considered. Gender, cultural, and ethnic/racial variations in grief expression will be explored. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW551 Family Violence Across the Life Cycle
The prevalence, dynamics, and theories of various types of family violence, ranging from child abuse to elder abuse will be examined. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW552 Substance Abuse
Chemical dependence as a disease is emphasized, however, other etiological perspectives are also surveyed. Physiological aspects of dependence are presented and the role of gender, race, and social conditions in the assessment and intervention of substance abuse are explored. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW553 Social Work Interviewing
This course covers the steps for engaging the client in a professional social work interview. From engagement to termination, a major focus is on the use of self in the helping process. Issues of human diversity will be examined in relation to structuring the interview process. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW554 Child Welfare I
First course of a two-part series. The course provides students with the knowledge and skills to practice in a public or private child welfare setting. The course focuses on protecting children from physical and sexual abuse and neglect. Special attention is paid to determining immediate and potential risk for maltreatment. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW555 Child Welfare II
This course addresses the developmental and permanence needs of children. The effects of maltreatment on the physical, psychological, and social development of the child will be explored. Developmental disabilities, separation trauma, and placement issues will also be discussed. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW557 Issues in Individual Psychotherapy
This course focuses on issues in individual psychotherapy such as disclosure, resistance, mutuality, responsibility, boundaries,

Social Work

35SW557 Issues in Individual Psychotherapy
abandonment, attraction, use of paradox, and termination. BoK: DC. Credit Level: U, G. Credit Hrs: 3.00

35SW558 Child Welfare III
This is the third course in the Child Welfare sequence. This course examines the developmental and permanence needs of children. Specifically, the course covers effects of child maltreatment, trauma of separation, placement issues, and services available for children with disabilities. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW559 Social Work Practice with GLBT Communities
This course will examine gay, lesbian, bisexual and transgender people with a focus on historical events, conflicts and current issues. In particular, ethical issues, policies, resources, cultural diversity, and hate crimes will be a primary focus. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW560 Aging in America
This course introduces students to the field of gerontological social work. Individual concerns of older adults, including biological, psychological, and social factors will be explored. The demographics of aging will be examined along with the implications for public policy and the service delivery system. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW566 Poverty: Implications for Social Work Practice
This course introduces students to the causes, prevalence, and long-term consequences of poverty. The consequences of poverty for specific groups (people of color, children, women, elderly, immigrants) and for public institutions and urban communities are examined along with government responses designed to alleviate the impact of poverty. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW589 CRISIS INTERVENTION
CRISIS INTERVENTION BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW594 Special Topics in Social Work
Variable subjects depending upon student and faculty interest. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

35SW595 Special Topics in Social Work
See 21-058-594. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW596 Special Topics in Social Work
See 21-058-594. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW597 Special Topics in Social Work
See 21-058-594. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW730 Social Welfare Policy, Institutions and Programs
Analysis of current major social welfare policies and their historical development with an emphasis on the cultural, political, social, and economic forces which shaped them. BoK: NA. Credit Level: U, G. Credit Hrs: 3.00

35SW795 Special Topics in Social Work
Variable subjects based upon student and faculty interest. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

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Social Work

35SW796  
Special Topics in Social Work  
See 21SW795. BoK: NA. Credit Level: U, G. Credit Hrs: 1.00-3.00

35SW700  
Brief Treatment in Social Work Practice  
This course focuses on differential treatment techniques for different groups. Brief treatment models are evaluated in relation to social work values and their impact on diverse client populations. Credit Level: G. Credit Hrs: 3.00

35SW701  
Family Treatment  
The principles and techniques of social work practice with families is explored. Theories and models of family practice are presented with an emphasis on the family as a social system in transaction within a sociocultural environment. Credit Level: G. Credit Hrs: 3.00

35SW702  
Child Mental Health  
The development of knowledge and skills in direct practice with children and adolescents that require mental health services. Approaches to assessment, diagnosis, and intervention are studied. The role of culture, race, gender, and class in the assessment and intervention planning will be carefully examined. Credit Level: G. Credit Hrs: 3.00

35SW703  
Social Work Practice in the Schools  
This course prepares social work students to work in educational settings as certified social workers. The course examines issues in American schools, design, delivery and evaluation of school social work services, and legal and ethical issues that may arise in a school setting. Emphasis is placed on truancy, dropping-out of school, violence, and juvenile delinquency. Credit Level: G. Credit Hrs: 3.00

35SW704  
Leadership for Social Workers  
This course is designed to enhance student leadership knowledge and skills in both direct practice and administrative social work settings. Credit Level: G. Credit Hrs: 3.00

35SW710  
Human Behavior and the Social Environment I: Organizations and Communities  
Introduction to the effect organizations and communities have on people's bio-psycho-social development. Also examines theories on organizational and community structure. Credit Level: G. Credit Hrs: 3.00

35SW711  
HBSE II IND  
HBSE II IND Credit Level: G. Credit Hrs: 3.00

35SW712  
HBSE III Families  
This course provides knowledge for understanding families in their social context. The family life cycle, intergenerational families, and how families are structured and function will be explored. Diverse family structures will be examined. Credit Level: G. Credit Hrs: 3.00

35SW713  
Theories of Personality Development  
Advanced human behavior and social environment course designed for direct practice students. Different theories of human personality development and how these perspectives influence practice decisions will be discussed. Credit Level: G. Credit Hrs: 3.00

35SW714  
Human Diversity for Social Work  
Focuses on differences and similarities in the experiences, needs, and beliefs of people. This includes groups distinguished by cultural, ethnic, gender, age, sexual orientation, socioeconomic status, and physical or mental ability. Credit Level: G. Credit Hrs: 3.00

35SW720  
Research in Social Work  
Introduction to the scientific method and social science research methods and concepts. Research design and application to social work issues is emphasized. Credit Level: G. Credit Hrs: 3.00

35SW721  
Practice Evaluation in Social Work  
Techniques and uses of single system research for monitoring and evaluating individual client outcomes and organizational change. Students learn to define groups and subsystems as single systems and to use data collected over time to control or comparison data from which to make inferences. Credit Level: G. Credit Hrs: 3.00

35SW722  
Planning and Managing Program Evaluation  
This course is designed to help students develop the knowledge and skills required to plan, implement, and manage program evaluation projects. Various program evaluation methods, tools, and monitoring techniques will be explored. How the results of the evaluation can be used to modified interventions and program performance will be discussed. Credit Level: G. Credit Hrs: 3.00

35SW731  
Social Policy Analysis  
Evaluation of social policy and its planned and unanticipated impacts are examined. Students are required to apply analytic tools to evaluate the appropriateness and utility of selected policies. Credit Level: G. Credit Hrs: 3.00

35SW740  
Social Work Practice with Organizations and Communities  
Introduction to macro practice -- solving social problems and making social changes at the organizational, community, and societal levels. Credit Level: G. Credit Hrs: 3.00

35SW741  
Social Work Practice with Individuals and Families I  
Introduction to micro practice with individuals and families. Emphasis is placed on the beginning phases of the helping process. Credit Level: G. Credit Hrs: 3.00

35SW742  
Social Work Practice with Individuals and Families II  
The middle and ending phases of the helping process. Credit Level: G. Credit Hrs: 3.00

35SW743  
Social Work Practice with Groups  
Developing competencies for direct practice with groups. An examination of various models of group work and development of group intervention skills. Credit Level: G. Credit Hrs: 3.00

35SW744  
Assessment and Diagnosis in Social Work Practice  
Concepts of normality, deviance, and psychopathology are presented with particular attention to influence of culture, ethnicity, and gender. Contrasts are made between diagnostic classification and assessment with attention to the DSM IV. Credit Level: G. Credit Hrs: 3.00

35SW761  
Introduction to Major Mental Illness  
This course focuses on persons with major mental illnesses. It includes theories of etiology, specific issues in assessment and diagnosis; the range of intervention options and an examination of various subgroups (e.g., minorities, homeless, dually diagnosed, young adults). The course emphasizes the role of the social worker using the biopsychosocial model, collaboration and community support. Social justice and eliminating stigma for persons with mental illness will be a focus. Recovery and consumer operated services and the importance of individual differences in determining interventions will be emphasized. Credit Level: G. Credit Hrs: 3.00
Social Work

35SW770  
Social Work Field Instruction Lab  
This course introduces the field instruction program. Students will learn the policies and procedures for determining a field placement, how to develop a learning contract, and explore the specialized study opportunities. Credit Level: G. Credit Hrs: 1.00

35SW771  
Field Instruction SWI School of SW  
Continuation of instruction from 21SW770. Credit Level: G. Credit Hrs: 4.00

35SW772  
Social Work Field Instruction II  
Preparation for entry into student field practicum; introduction to the placement process and field contract; development of basic interviewing and communication skills. Credit Level: G. Credit Hrs: 4.00

35SW773  
Summer Field Instruction  
Summer Field Instruction Credit Level: G. Credit Hrs: 1.00-12.00

35SW780  
INTRO MENTAL ILL  
INTRO MENTAL ILL Credit Level: G. Credit Hrs: 3.00

35SW781  
REHAB MENTAL ILL  
REHAB MENTAL ILL Credit Level: G. Credit Hrs: 3.00

35SW782  
COM SUP MENTAL ILL  
COM SUP MENTAL ILL Credit Level: G. Credit Hrs: 3.00

35SW783  
FAM MENTAL ILL  
FAM MENTAL ILL Credit Level: G. Credit Hrs: 3.00

35SW785  
Theory and Skills for Advanced Practice  
This course is designed as a bridge from the knowledge and skills of the generalist practitioner to that required for advanced practice. Emphasis is placed on enhancing skills in engagement, relationship building, and multi-dimensional assessment. Credit Level: G. Credit Hrs: 3.00

35SW789  
DIRECTED STUDIES  
DIRECTED STUDIES Credit Level: G. Credit Hrs: 1.00-15.00

35SW790  
Social Work Field Instruction I  
This is the first 9-hour field instruction course. Students will become familiar with their field placement setting and work on their first learning contract. Credit Level: G. Credit Hrs: 2.00

35SW791  
Social Work Field Instruction II  
This is the second 9-hour field instruction course. Students will continue working on their foundation year learning objectives. Credit Level: G. Credit Hrs: 2.00

35SW792  
Social Work Field Instruction III  
This is the third 9-hour field instruction course. Students will continue working on their foundation year learning objectives. Credit Level: G. Credit Hrs: 2.00

35SW793  
Social Work Field Instruction IV  
This is the fourth 9-hour field instruction course. Students will continue working on their foundation year learning objectives. Credit Level: G. Credit Hrs: 2.00

Social Work

35SW799  
MSW Field Instruction  
MSW Field instruction provides experience in professional social work practice in administration or in direct practice with individuals, families, and small groups. Individualized learning contracts are jointly developed by the student and the field instructor. This course is designed for students who need to make-up field hours from previous quarters or who are completing additional field hours for elective credit. Credit Level: G. Credit Hrs: 1.00-8.00

35SW830  
SOC POLCY ANALYSIS  
SOC POLCY ANALYSIS Credit Level: G. Credit Hrs: 3.00

35SW840  
Social Welfare Administration Practice Theory and Methods  
Introduction to social welfare administration. An examination of organizations as implementers of social welfare policy. Credit Level: G. Credit Hrs: 3.00

35SW841  
Program Planning and Implementation  
Develop skills for planning and implementing social service programs. Credit Level: G. Credit Hrs: 3.00

35SW842  
Managing Human and Financial Resources in Social Service Agencies  
This course provides students with the knowledge and skills to manage human and financial resources in social service agencies. The process of recruiting, selecting, developing, and retaining productive staff will be explored. In addition strategies for developing financial plans that support program goals/objectives will be examined. Credit Level: G. Credit Hrs: 3.00

35SW843  
Methods of Personnel Administration  
Major issues in personnel management of social welfare organizations: collective bargaining, affirmative action, hiring/firing. Credit Level: G. Credit Hrs: 3.00

35SW845  
Theory and Practice of Supervision  
Study of administrative, educational and support functions of social work supervision in human service agencies. Credit Level: G. Credit Hrs: 3.00

35SW846  
Methods of Resource Management  
Analysis of budgetary and fiscal management processes unique to non-profit organizations are examined as is the development and preparation of a budget. Credit Level: G. Credit Hrs: 3.00

35SW848  
Program Policy and Implementation  
Analysis of reasons for policy decisions/program outcomes. Methods and strategies of implementation planning to minimize problems is emphasized. Credit Level: G. Credit Hrs: 3.00

35SW850  
Children and Family Services - Programs and Policies  
Overview of programmatic and policy issues governing services impacting children and families. Welfare reform, managed care and legal procedures will also be explored. Credit Level: G. Credit Hrs: 3.00

35SW851  
Assessment:Children, Adolescents and Families  
Interviewing and assessment skills specific to children, adolescents and families. Emphasis on children/adolescents at risk. Credit Level: G. Credit Hrs: 3.00

35SW852  
Intervention: Children, Adolescents, & Families  
This course is designed to help students develop advanced knowledge.

H=University Honors course.  
Intervention: Children, Adolescents, & Families
and skills for intervention with children/adolecents and their families. The course begins with an overview of treatment approaches utilized with this population. The remainder of the course looks at the application of these interventions with different types of problems often experienced by children/adolecents and their families. Attention is also given to the role human diversity plays when developing an intervention plan. Credit Level: G. Credit Hrs: 3.00

Social Work Practice in Health Care
Practice in health care settings - hospitals, home health care agencies, hospices, clinics and community based programs. health beliefs, models of health behavior will be explained. Credit Level: G. Credit Hrs: 3.00

Social Programs and Policies in Health Care and Gerontology
An examination of major policies, programs, friends and issues in health care and gerontology. Credit Level: G. Credit Hrs: 3.00

Social Work Practice in Gerontology
This course prepares students for direct practice in a variety of settings serving older adults and their families. Theories of adult development and aging are examined. Emphasis is placed on developing skills for work with older adults experiencing "normal" life transitions, life crises, and special problems. Particular attention is given to the experiences of elderly women, minorities, and populations at risk. Credit Level: G. Credit Hrs: 3.00

Advanced Clinical Practice in Mental Health I
The focus of this course is on working with individuals with major mental illness. Theories of etiology, issues in assessment and diagnosis and a range of intervention options will be explored. Credit Level: G. Credit Hrs: 3.00

Advanced Clinical Practice in Mental Health II
This course focuses on the process of mental health psychosocial treatment, use of theoretical foci, therapeutic processes and relationship development to effect growth and change. Credit Level: G. Credit Hrs: 3.00

Policy Implications of Mental Health Practice: Negotiating the System
This course examines policy, economic, legal, ethical, and political issues that affect social techniques of the worker within the context ofseveral modalities of group intervention are emphasized. Credit Level: G. Credit Hrs: 3.00

Field Instruction in Social Work III
See 21-058-770. Credit Level: G. Credit Hrs: 4.00

Field Instruction in Social Work IV
See 21-058-770. Credit Level: G. Credit Hrs: 4.00

Field Instruction in Social Work V
See 21-058-770. Credit Level: G. Credit Hrs: 4.00

Field Seminar
Opportunity for integration of classroom and field work. Presentation of cases and field work experiences. Credit Level: G. Credit Hrs: 1.00