SCHOOL OF HEALTH SCIENCES

The state of Connecticut is a growing center of nationally known medical facilities, biotechnology development and pharmaceutical research and manufacture. These institutions have increased demands for individuals with up-to-date training. The Master of Health Science program offers several majors that meet these standards. The Cardiovascular Perfusion program provides comprehensive preparation in clinical sciences and clinical internships to prepare perfusionists who provide life support during cardiopulmonary bypass. The Medical Laboratory Sciences/Biomedical Sciences program provides laboratory professionals with the opportunity to specialize in fields such as microbiology and biomedical sciences. A full-time program for Pathologists' Assistants provides training in pathology, anatomy and the medical sciences. The Physician Assistant studies program provides full-time instruction in the basic medical and clinical sciences needed for certification and a graduate degree in a growing profession. The Social Work program prepares students for achievement and leadership in the field of social work. The Radiologist Assistant program provides students with full-time advanced training in the field of radiology, which is needed for certification and to obtain a master's degree.

Career Development

In the School of Health Sciences, the assistant dean for career development works with students to explore majors and career interests through individual consultations and group sessions, and guides them through a career development process. Assistance is provided with resume and cover letter writing, interview preparation, conducting a job search and graduate school applications. Students can participate in experiential learning through community service as well as internships, part-time and summer employment. A health professions career fair is held every spring at the North Haven Campus.

Additional Requirements

Academic programs with clinical components use multiple clinical education centers. Students are responsible for their transportation to and from these clinical agencies.

Background Checks

Students should be aware that certain clinical sites or internship locations may require a criminal background check before a student is placed in the clinic or intern site. The university has procedures to assist students in obtaining such a background check. The cost of the background check is the responsibility of each individual student.

Academic and Clinical Software Package Cost

Students enrolled in certain undergraduate and graduate programs in the School of Health Sciences are required to pay for access to EXXAT, a clinical and academic software package. The cost for EXXAT is a one-time charge of $150 (subject to change) that permits access to the software for the duration of the student's enrollment in their current major. Students in undergraduate and graduate programs that require clinical/fieldwork experiences will be required to pay for access to a documentation approval system through EXXAT. Specific information regarding documentation approval will be provided by individual programs.

Technical Standards for Admission

Students admitted to all programs in the School of Health Sciences must be able to meet their program's technical standards and or essential functions. Technical standards are developed by accreditation agencies and organizations to establish the essential qualities and standards considered necessary to achieve the skills, knowledge and competencies for entry-level practice. Information on technical standards and essential functions may be found in the catalog, on the website or by contacting the individual program chairperson.

Academic Good Standing

All undergraduate and graduate students in the School of Health Sciences are expected to maintain the required minimum GPA set forth by their respective program of study (if applicable). Each program may have additional benchmarks that must be met to progress within the program of study. The student should refer to the program's description in the Quinnipiac University Catalog and to the program's student handbook (if applicable) for clarification for what is required to maintain his/her status within the program.

At the end of each semester, the program directors will compile a list of students who are deficient in meeting academic or clinical/professional achievement requirements. Utilizing the review process established by his/her program, the student will be notified via email of his/her status in the program. Deficient students may be: a) placed on probation, b) suspended or c) dismissed. Students placed on probation remain in their program but in order to progress, must meet the performance standards specified in their probation notification letter. For further clarification please see the Program Level Academic Good Standing Policy (http://catalog.qu.edu/university-policies/program-level-academic-good-standing-policy/).

Admission

Students who have a bachelor’s degree in the biological, medical or health sciences are eligible for admission to the Master of Health Science program. A detailed autobiography of personal, professional and educational achievements as well as two letters of reference must be submitted with a student’s application. Applications may be obtained from the Office of Graduate Admissions. Applicants should refer to the Graduate Admission Requirements (http://catalog.qu.edu/graduate-studies/#/admissionstext) in this catalog.

The Quinnipiac University Physician Assistant program participates in the Central Application Service for Physician Assistants (CASPA). Go to caspa.liaisoncas.com (https://caspa.liaisoncas.com) for more information regarding the application process and fees. All applications, transcripts, references and other supporting materials are submitted directly to CASPA. The Physician Assistant program admits students on a yearly basis. The deadline for completed applications to CASPA is September 1. Interviews are conducted from the early fall through mid-November. Classes begin in late May/early June.

Master of Health Science

- Advanced Medical Imaging and Leadership (http://catalog.qu.edu/graduate-studies/health-sciences/advanced-medical-imaging-and-leadership-program/)
- Cardiovascular Perfusion (http://catalog.qu.edu/graduate-studies/health-sciences/cardiovascular-perfusion-mhs/)
- Biomedical Sciences (http://catalog.qu.edu/graduate-studies/health-sciences/medical-laboratory-sciences-mhs/) with concentrations in:
• Medical Sciences
• Microbiology
• Health Science (http://catalog.qu.edu/graduate-studies/health-sciences/health-science-ms/)
• Pathologists' Assistant (http://catalog.qu.edu/graduate-studies/health-sciences/pathologists-assistant-mhs/)
• Physician Assistant (http://catalog.qu.edu/graduate-studies/health-sciences/physician-assistant-mhs/)
• Radiologist Assistant (http://catalog.qu.edu/graduate-studies/health-sciences/radiologist-assistant-mhs/)

Master of Social Work
• Master of Social Work (http://catalog.qu.edu/graduate-studies/health-sciences/social-work-msw/)

Doctoral Degrees
• Entry-Level Professional Doctor of Occupational Therapy (OTD) (http://catalog.qu.edu/graduate-studies/health-sciences/occupational-therapy-entry-level-otd/)
• Online Post-Professional Occupational Therapy Doctorate (OTD) (http://catalog.qu.edu/graduate-studies/health-sciences/occupational-therapy-online-otd/)
• Entry-Level Doctor of Physical Therapy (DPT) (http://catalog.qu.edu/graduate-studies/health-sciences/post-bachelors-doctor-physical-therapy-dpt/)

Advanced Medical Imaging & Leadership (AMI)
AMI 515. Introduction to Magnetic Resonance Imaging. 3 Credits.
Magnetic resonance imaging is studied as it pertains to diagnostic imaging. Topics include mathematics, physical principles, imaging concepts, equipment, image quality, clinical applications and biologic effects of MRI. Prerequisite: ARRT certification or permission of the department.
Offered: Every year, Summer

AMI 515L. Magnetic Resonance Imaging Principles I - Lab Practicum. 1 Credit.
This course demonstrates the principles presented in the didactic component of the course, AMI 515, Introduction to Magnetic Resonance Imaging. This lab complement enables the student to develop hands-on skills with the Toshiba Vantage 1.5 Tesla Magnetic Resonance Imaging scanner. Training includes the operation of the hardware and software components of the equipment with the objective to optimize image quality. This course also influences the student's development of patient care skills dealing with claustrophobia and safety concerns regarding MRI.
Offered: Every year, Summer

AMI 516. Advanced MRI Principles and Imaging. 3 Credits.
This course is designed for the student who has successfully passed AMI 515 (Introduction to Magnetic Resonance Imaging) and/or for the technologist actively working in the MRI field. The main objective for this course is to expand on the basic MRI physics and advanced MRI imaging applications.
Offered: Every year, Fall

AMI 516L. Magnetic Resonance Imaging Principles II - Lab Practicum.
This course demonstrates the principles presented in the didactic component of the course, AMI 516 (Advanced MRI Principles and Imaging). This lab complement enables the student to further develop hands-on skills with the Toshiba Vantage 1.5 Tesla Magnetic Resonance Imaging scanner and expand upon the basic MRI physics and advanced imaging applications. Training includes the operation of the hardware and software components of the equipment with the objective to optimize image quality. This course also influences the student's continued development of patient care skills dealing with claustrophobia and safety concerns regarding MRI.
Offered: Every year, Fall

AMI 517. Magnetic Resonance Imaging Clinical I. 2 Credits.
This practicum involves providing clinical experience in the field of magnetic resonance imaging (MRI) at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations in MRI under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Fall

AMI 518. Magnetic Resonance Imaging Clinical II. 2 Credits.
This practicum is a continuation of AMI 517 and involves providing clinical experience in the field of magnetic resonance imaging (MRI) at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations in MRI under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Spring

AMI 523. Advanced Sectional Anatomy. 3 Credits.
This sectional anatomy course includes head, thorax, abdomen, pelvis and extremities. In addition to coronal, sagittal and axial imaging examined, oblique sections and three-dimensional reconstruction are included. Only for students enrolled in the AMI program.
Offered: Every year, Summer

AMI 530. Mammography and Bone Densitometry Clinical I. 2 Credits.
This practicum involves providing clinical experience in the field of mammography and bone densitometry at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Fall
AMI 531. Mammography and Bone Densitometry Clinical II. 2 Credits.
This practicum is a continuation of AMI 530 and involves providing clinical experience in the field of mammography and bone densitometry at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Spring

AMI 534. Bone Densitometry. 1 Credit.
This distance learning course provides students with an overview of the history of bone densitometry as well as knowledge in the areas of osteoporosis and bone health, equipment, quality control, patient preparation and safety, and scanning. The course encompasses didactic components to cover all relevant material currently consistent with the ARRT certification examination. Prerequisite: ARRT Registered Radiologic Technologist.
Offered: Every year, Summer Online

AMI 537. Computed Tomography Clinical I. 2 Credits.
This practicum involves providing clinical experience in the field of computed tomography (CT) at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations in CT under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Fall

AMI 538. Introduction to CT Scanning. 3 Credits.
Computed tomography (CT) scanning as it pertains to diagnostic imaging is studied. Topics include principles, physics, image reconstruction, equipment, image quality, radiation dose, specialized techniques, diagnostic applications and some cross-sectional anatomy. Prerequisite: ARRT certification or permission of the department.
Offered: Every year, Summer

AMI 538L. Computed Tomography Lab I. 1 Credit.
The course demonstrates the principles presented in the didactic component of the course, AMI 538, and enables the student to develop hands-on skills with the Toshiba Aquilion 64 slice computed tomography unit. Training includes the operation of the hardware and software components of the equipment with the objective to optimize image quality and minimize patient radiation dose. Prerequisite: ARRT certification or permission of the department.
Corequisites: Take AMI 538.
Offered: Every year, Summer

AMI 539. Computed Tomography Clinical II. 2 Credits.
This practicum is a continuation of AMI 537 and involves clinical experience in the field of computed tomography at various facilities, including affiliated hospitals and imaging centers. Students attending clinic perform examinations in CT under the direct or indirect supervision of a certified radiologic technologist. The experience gained through these rotations continually supports the need to obtain quality diagnostic images while promoting and maintaining a safe work environment as well as appropriate patient care. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Spring

AMI 540. Principles of Mammography. 3 Credits.
This course provides an overview of the history of mammography as well as fundamental knowledge in the areas of anatomy, physiology and pathology of the breast, mammographic equipment and instrumentation, positioning and technique for mammography. Also covered are methods of patient education and quality control. The course prepares students for the ARRT Mammography Certification Examination and meets all ACR/FDA training requirements. Prerequisite: ARRT certification or permission of the department.
Offered: Every year, Summer

AMI 541L. Mammography and Bone Densitometry Lab. 2 Credits.
The course demonstrates the principles presented in the didactic component of the courses, AMI 534 and AMI 540, and enables the student to develop hands-on skills with the on-site Hologic Mammography and Bone Densitometry units. Training includes the operation of the hardware and software components of the equipment with the objective to optimize image quality and minimize patient radiation dose. Only for students enrolled in the AMI program.
Offered: Every year, Summer

AMI 545. Women's Health and Imaging. 3 Credits.
This course provides a thorough look at women's health and disease with a focus on diagnostic imaging. Students examine common health factors for females including pathophysiology, family history, socioeconomic status and diagnostic procedures. This course investigates common health topics for the betterment of overall care of self, community and the health care consumer enabling the health professional to answer questions and have a general understanding of the diseases that may be encountered in health care practice. Program content is dynamic and is modified each year to represent the most current data and statistics. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Fall

AMI 560. Pathology for CT and MRI Technologists. 3 Credits.
This course covers identification, pathophysiology and pattern recognition of common pathologies observed in computed tomography and magnetic resonance imaging. Normal and abnormal comparisons are presented. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Spring

AMI 570. Capstone I. 1 Credit.
This capstone course is the first in the advanced medical imaging curriculum, which integrates advanced imaging and business course material. Students begin developing a consulting/case project that is relevant to current and emerging practice areas in imaging. Students apply knowledge of project management, critical analysis and professional presentations. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Fall

AMI 575. Capstone II. 3 Credits.
This final capstone course integrates the knowledge and skills gained throughout the program. The course focuses on the design and implementation of a consulting case/project, including a comprehensive analysis of organizational issues and proposal of appropriate recommendations and implementation plans. The result is a professionally written consulting paper and/or presentation. Prerequisite: Successful completion of all previously sequenced programmatic coursework.
Offered: Every year, Spring
Biomedical Sciences (BMS)

**BMS 502. Research Methods.** 4 Credits.
This course involves topics related to developing scientific, analytical and laboratory skills, including written and oral communication, critical thinking and reasoning, scientific inference and information literacy. The purpose of the course is to examine, discuss and perform current methods used by research scientists and health care workers. Topics include recombinant DNA and protein techniques, Enzyme Linked Immunosorbent Assays, as well as experimental design and data analysis.  
*Offered: As needed*

**BMS 503. Professional Development in Biomedical Sciences.** 1 Credit.
This course aims to assist students in developing their individual career and professional development plans within the field of research and medicine. Topics include: exploring job search strategies, graduate and medical school applications, resume and cover letter preparation, interviewing skills, effective communication and presentation skills, professionalism and ethical behavior. This course is graded on a pass/fail basis.  
*Offered: Every year, All*

**BMS 504. Quality and Safety in Healthcare Organization.** 3 Credits.
This course will introduce students to the science of quality improvement, error reduction, and patient safety from the perspective of healthcare organizations. Medical errors, quality and safety initiatives, intervention strategies, and institutional challenges to improve patient care in the US healthcare systems will be discussed. Case-based studies will be used to cover complex topics in real-world settings. Students will earn a Basic Certificate in Quality and Safety through the Institute for Health Care Improvement.  
*Offered: Every year, Fall*

**BMS 505. Advanced Biology of Aging.** 3 Credits.
Why we age has been the eternal question and the most unsolved mystery in the history of mankind. However, we are gradually able to elucidate some of the secrets that regulate aging processes. This course focuses on the fundamental physiological deviations that occur during the aging process in individual tissue and organ systems and the various theories that attempt to define the reasons for these deviations. The course also emphasizes pathologies related to aging that are time regulated alterations in cellular, physiological and biochemical functions.  
*Offered: Every year, Fall*

**BMS 506. Biostatistics.** 3 Credits.
This course covers the application of statistical techniques to the biological and health sciences. Emphasis is on mathematical models, collection and reduction of data, probabilistic models estimation and hypothesis testing, regression and correlation, experimental designs and non-parametric methods.  
*Offered: As needed*

**BMS 507. Writing for Scientists.** 3 Credits.
Students develop skills in expository writing in the context of scientific forms. This course covers how to construct a hypothesis and develop an argument through analysis and critical thinking, how to write and present research papers, and other related topics. Intensive written exercises draw on student experience to clarify professional expression in practical situations. Readings include journalistic and scientific articles.  
*Offered: As needed*
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<th>Course Code</th>
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<td>Immunology.</td>
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<td>BMS 525L</td>
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<td>BMS 527</td>
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<td>BMS 529</td>
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<td>BMS 537</td>
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**BMS 522. Immunology.**
This course examines theories, techniques and recent advances in immunology and the latest knowledge on immunoglobulins, complement, the role of T and B cells in immune response study of allergy, tumor and transplantation immunology, and autoimmune diseases. The principles of immunology and how they apply to the diagnostic laboratory are discussed. Techniques studied include immuno- and gel-electrophoresis and fluorescent antibodies.  
**Offered:** Every year, Fall

**BMS 522L. Immunology Lab.**
This is an interactive, hands-on, project-based laboratory course examining various aspects of the human immune system, including both the innate and adaptive immune response. Students gain experience with standard laboratory techniques such as ELISAs, gel electrophoresis, Western Blotting, with an emphasis on quantitative reasoning and critical thinking. This course must be taken in conjunction with BMS 522 lecture.  
**Corequisites:** Take BMS 522.  
**Offered:** Every year, Fall

**BMS 525. Vaccines and Vaccine Preventable Diseases.**
This immunology course involves the investigation of vaccines and vaccine preventable diseases. The purpose of the course is to examine and discuss the current understanding of vaccinations, as well as the historical and current implication of vaccine preventable diseases. By the end of the semester, students should gain knowledge about vaccine preventable diseases, understand how vaccines work, how they are made, who recommends vaccines, the childhood vaccination schedule, when they should be given and why they are still necessary. Most importantly, students should be able to explain why vaccines are safe, and to be able to debunk the current myths and misconceptions regarding vaccines.  
**Upper-level undergraduates may take course with permission.**  
**Offered:** Every other year, Spring

**BMS 526. Epidemiology.**
This graduate-level course in epidemiology directs itself toward application of epidemiological principles. The course involves analysis of prospective and retrospective studies, cross-sectional studies and experimental epidemiology. Both communicable and chronic disease case studies are used, as well as case studies of occupationally induced diseases. The use of biostatistics in epidemiological studies is stressed. This course covers basic epidemiology principles, concepts and procedures useful in the surveillance and investigation of health-related states or events.  
**Offered:** Every other year, Fall

**BMS 527. Pharmacology.**
This course provides students with knowledge of the foundations and advances in pharmacology. The first third of the class covers the basic principles of the FDA drug process, pharmacodynamics, pharmacokinetics, therapeutics and toxicology. The rest of the course is devoted to clinical review of the basic classes of drugs.  
**Offered:** Every year, Summer

**BMS 528. Advanced Clinical Parasitology.**
This course presents an advanced study of protozoan and helminth parasites of humans. Lecture focuses on the epidemiology and treatment of selected diseases. Laboratory focuses on clinical diagnosis, diagnostic techniques including immunodiagnostic techniques and advanced experimental life cycle studies using both living and preserved materials.  
**Offered:** Every year, Spring

**BMS 529. Seminar in Health Care Disparities.**
The Centers for Disease Control and Prevention (CDC) defines health disparities as differences in health outcomes between various segments of the population, which are mostly associated with socioeconomic status, race/ethnicity and level of education. This course investigates the cause and effect of health care disparities using an interdisciplinary approach. Students become familiar with the research literature on the topic from different points of view by being part of a literature review/journal club.  
**Offered:** As needed
BMS 561. Immunohematology. 3 Credits.
This course examines the current concepts of hemato poiesis, including red blood cell and white blood cell morphogenesis, blood banking, blood typing, donor selection, adverse transfusion reactions, ABO antigens/antibodies, crossmatching, the structure and function of the components of normal blood and bone marrow, pathological processes that occur in the blood and bone marrow, and the normal and abnormal events during hemostasis.
Offered: As needed

BMS 562. Blood Coagulation and Hemostasis. 3 Credits.
This study of the basic principles of hemostasis includes the vascular component, platelet physiology and function, coagulation factors/fibrin clot formation and fibrinolysis. Hereditary and acquired forms of hemorrhagic disorders and thromboembolic disease are examined in detail along with the test procedures for diagnosis and the initiation of proper therapy.
Offered: As needed

BMS 563. Anemias. 3 Credits.
This study of those classes of disorders related to abnormal red cell pathophysiology includes both intracorpuscular and extracorpuscular defects. Erythropoiesis and basic red cell metabolism are briefly reviewed. Etiologies, differential diagnoses, and treatment of anemias are discussed in-depth.
Offered: As needed

BMS 564. Fundamentals of Oncology. 4 Credits.
This course presents a study of the chemical and biological basis of carcinogenesis, natural history of human cancer, biochemistry of cancer, various aspects of experimental oncology including tumor immunology, and factors affecting survival and multiplication of cancer cells in the body. Delivery methods include weekly discussions on original research papers that correlate clinical studies with the molecular mechanisms presented in lecture.
Offered: Every year, Spring

BMS 565. Leukemia. 3 Credits.
This course includes in-depth discussions with emphasis on the major forms of leukemia (ALL, CLL, AGL, CGL), current methods of blood component therapy and chemotherapy, the role of infections, immunological diagnostic advances, psychiatric and social aspects in patient management and recent advances in leukemia research. The purpose of the course is to enhance knowledge and understanding of those students who have had an introductory course in hematology and those who are actively involved in clinical or research hematological laboratories.
Offered: As needed

BMS 569. Antimicrobial Therapy. 3 Credits.
This graduate-level course explores the antimicrobial agents used to treat infectious diseases by inhibiting microbial growth and survival. This interactive, discussion-based class investigates the history, current status and future directions of antimicrobial drugs with an emphasis on antibacterial and antiviral chemotherapeutic agents. Topics include the mode of action and efficacy of drugs, as well as the development, spread and mechanisms of drug resistance. Upper-level undergraduates may take this course with permission.
Offered: Every year, Summer

BMS 570. Virology. 4 Credits.
This course presents a study of human and animal viruses, viral diseases, biochemical properties, and classification methods of isolation and identification of viral agents; preparation and inoculation of tissue culture, animals and embryonated eggs, immunological techniques, and antiviral chemotherapy.
Offered: Every year, Spring

BMS 572. Pathogenic Microbiology. 4 Credits.
This graduate microbiology course involves the study of medically important microbes, with a particular emphasis on the pathology associated with human infection. Students examine the underlying principles of microbial pathogenesis, including elements of structural biology, epidemiology, immunology and pathology. They also survey microbial organisms that plague mankind today.
Offered: Every year, All

BMS 573. Mycology. 3 Credits.
The morphology, taxonomy and classification of fungi and yeasts of medical importance are studied in this class. Laboratory exercises include isolation and identification techniques of selected human pathogens.
Offered: As needed

BMS 575. Food Microbiology. 4 Credits.
This applied course in microbiology is concerned with the microorganisms involved in the manufacture and spoilage of foods. Major pathogens that may be transmitted via foods are discussed. Laboratory stresses both identification of food-associated organisms and standard microbiological procedures used to determine the quality and safety of foods. Upper-level undergraduates may take course with permission.
Offered: As needed

BMS 576. Drug Discovery and Development. 3 Credits.
The material presented in this course encompasses the process of drug discovery and development. Topics covered include many aspects of drug development such as target identification, evaluation and screening, all phases of clinical development and post-marketing activities. The material presented is across drug classes, with a particular focus on psychoactive and neurology compounds.
Offered: Every year, Fall

BMS 577. Critical Analysis and Reasoning In the Biomedical Sciences. 2 Credits.
This course helps develop skills necessary for critical analysis and reasoning. This course covers inconsistencies, biases, and fallacies in reasoning and analysis vital for research/science/healthcare careers as well as MCAT and other exam preparation. Students will: examine how they think while reading and discussing clinical & research literature, learn to analyze readings and data by examining and practicing logical reasoning, and build evaluations and analyzing readings to ask and answer questions and build testable hypotheses.
Offered: Every year, Spring

BMS 578. Cellular Basis of Neurobiological Disorders. 3 Credits.
A detailed overview of neurobiological disorders at the molecular level is presented. Recent advances in gene cloning to identify causes for some of these disorders are discussed in detail.
Offered: As needed
BMS 579. Molecular Pathology. 3 Credits.
Molecular pathology is a new and rapidly growing discipline of laboratory medicine and includes applications of molecular techniques to all facets of diagnostic medicine. This course reviews the structure and function of nucleic acid sequences and provides an in-depth introduction to the molecular techniques exploited in the diagnosis of human diseases. The course focuses on currently employed applications to areas such as genetic disease, infectious disease, cancer and identity testing.
Offered: As needed

BMS 583. Forensic Pathology. 3 Credits.
This course is designed for students interested in the practical applications of science, specifically forensic medicine. Graphic examples of injuries and patterns of trauma serve as the backdrop for introduction to the understanding of the techniques involved in death investigation from the medical perspective.
Offered: As needed

BMS 584. Emerging and Re-emerging Infectious Diseases. 3 Credits.
This graduate-level course discusses current topics related to the plethora of infectious agents that besiege us. Emerging bacterial, protozoal and viral diseases, whether strictly animal or human or zoonotic pathogens, represent an increasing threat to animal and human health. The course examines, defines and discriminates between emerging, re-emerging and other infectious diseases; defines host and agent characteristics and risk factors; and analyzes social, economic and international trade changes, improper use of antibiotics, and multidrug resistant infectious agents as factors of emerging diseases. Upper-level undergraduates may take this course with permission.
Offered: Every other year, Fall

BMS 585. Outbreak Control. 3 Credits.
An outbreak or epidemic is the occurrence of more cases of disease than expected in a given area or among a specific group of people over a particular period of time. Usually, the cases are presumed to have a common cause or to be related to one another in some way. Public health agencies must decide whether to handle outbreaks without leaving the office, or spend the time, energy and resources to conduct field investigations. The most important reason to investigate is to learn enough about the situation to implement appropriate control and prevention measures. Investigations also enable researchers to advance knowledge about the disease, agent, risk factors and interventions; provide a way to respond to public, political or legal concerns; evaluate a health program's effectiveness and weaknesses; and provide training. When multiple agencies are involved in the investigation, coordination and communication become even more essential. Upper-level undergraduates may take this course with permission.
Offered: Every other year, Fall

BMS 589. Independent Study. 1-6 Credits.
Offered: As needed

BMS 591. The New Genetics and Human Future. 3 Credits.
We are the first creatures on Earth learning a 3.5-billion-year-old DNA language. The completion of the Human Genome Project and the emerging science of genomics has dramatic ethical, legal and social implications. New genetics have the potential to affect all spheres of human life, including the ability to construct our destiny as a species. The goal of the course is not to give the answers to the numerous questions and dilemmas of our exciting and controversial future but to inspire interest and desire to pursue more study.
Offered: Every year, Spring

BMS 595. Transplantation Immunology. 3 Credits.
This course examines the current understanding of the major histocompatibility complex; the molecular basis of alloreactivity; and immunological mechanisms of allograft rejection, tolerance, and graft versus host disease. The objectives are: to understand the basics of the histocompatibility complex in relation to normal, disease and transplantation states, to understand the fundamental differences between immune responses to self antigens, foreign antigens, allo-antigens, and other non-self antigens, and to become familiar with the mechanisms underlying successful allogeneic transplantation and appreciate the concepts of immunosuppression and tolerance. Graduate level students are expected to complete a paper reviewing a current topic in transplantation. A basic understanding of immunology is desirable. Upper-level undergraduates may take this course with permission.
Offered: Every other year, Fall

BMS 597. Biomedical Sciences Internship. 4 Credits.
Students partake in a full-time professional work experience with a sponsoring organization. The experience brings together theory, application and current practice in the translational sciences. Journaling and discussion boards provide students with a reflective and intentional assessment of the field, their work and career development. Students submit a paper describing their experimental aims, design and outcomes as well as present their findings as a seminar open to the general university public.
Offered: Every year, Summer

BMS 598. Synaptic Organization of the Brain. 3 Credits.
Students study a variety of brain regions from both an anatomic and physiologic viewpoint to learn how these structures are organized at the synaptic level. The course includes a discussion of how these regions are associated with neurological disease. At the end of the class, students should: 1) understand the basic principles of neuronal functioning at the cellular and circuit level; 2) understand how the wide diversity of neural circuits seen in the brain generate specific functions in different regions; and 3) gain experience reading and interpreting scientific papers.
Offered: As needed

BMS 599. Biomarkers. 3 Credits.
Technological advances in molecular biology have provided an opportunity to evaluate drug-disease relationships at the molecular and cellular level. The goal of this course is to introduce the concept of biomarkers and how they are used clinically. This course covers both theoretical concepts and practical applications of biomarkers. Topics include the rationale for biomarkers, study design, logistics of sample collection/storage, options and techniques for analysis, as well as current applications in health care, including drug safety, regulatory issues, ethical considerations and the future direction of biomarker applications.
Offered: Every year, Spring

BMS 622. MED Cross-Listed Selective. 3 Credits.
BMS course to be cross-listed with a MED Course.
Offered: Every year, All

BMS 650. Thesis I. 4 Credits.
Approval of one of the two thesis options-experimental laboratory research or nonlaboratory-based project-is required. The thesis topic may be handled as an original investigation or as an applied problem (e.g., clinical) so long as it is about a health-related problem. Typed copies of final draft, prepared in compliance with thesis-writing manual, must be submitted prior to issuance of diploma. Thesis projects must be completed within three years after registration for the thesis course.
Offered: As needed
BMS 651. Thesis II. **4 Credits.**
Approval of one of the two thesis options-experimental laboratory research or nonlaboratory-based project is required. The thesis topic may be handled as an original investigation or as an applied problem (e.g., clinical) so long as it is about a health-related problem. Typed copies of final draft, prepared in compliance with thesis-writing manual, must be submitted prior to issuance of diploma. Thesis projects must be completed within three years after registration for the thesis course.
Offered: As needed

BMS 670. Comp Exam/Biomedical Sciences. **2 Credits.**
The comprehensive examination is a requirement of the non-thesis option of the Biomedical Sciences program. The purpose of the exam is twofold. First, it ascertains if the student possesses both the broad and specific knowledge expected of someone holding a master's degree. Second, it inquires if the student has been able to integrate knowledge obtained from individual courses into unified concepts that link the student's own specialization to other fields of study. A written essay exam is administered and graded by the exam course director or individual faculty. Students should schedule an appointment with the program director before registering for the comprehensive exam course.
Offered: As needed

BMS 681. Research Methods in Biomedical Sciences I. **1-4 Credits.**
Students learn the basic principles of research methodology. Register by paper with your mentor.
Offered: Every year, Fall and Spring

BMS 688. Independent Study. **1-6 Credits.**
Offered: As needed

BMS 689. Independent Study. **1-4 Credits.**
Offered: As needed

Health Science Studies (HSC)

HSC 505. Interprofessional Community-Based Service Learning Seminar: Age-Related (HSC 205). **1 Credit.**
This course provides an opportunity to engage in active learning, implementing a program with a local community partner working with children/youth, adults or older adults. Students are required to participate in 10-15 hours of community engagement to observe and apply the concepts of interprofessional health care in a community-based setting. Community experience is supervised by faculty with expertise in analysis of community-based practice. Classroom/community engagement schedules will be determined. Course may be taken more than once.
Offered: Every year, All

HSC 506. Interprofessional Community-Based Service Learning Seminar: International (HSC 206). **1 Credit.**
Students observe and apply various health/wellness concepts in an international community-based setting. Students are required to spend a minimum of 15 hours at an international site to engage in active learning by implementing a program with an international community partner. Course is taught by faculty with expertise in the analysis of community-based practice. Classroom/community engagement schedules will be determined. This course may be taken more than once. Application process for international experiences required.
Offered: Every year, All

HSC 507. Interprofessional Community-Based Service Learning Seminar: Special Populations (HSC 207). **1-2 Credits.**
This course involves active learning implementing a program with a local community partner working with at-risk population. Students are required to participate in 10-15 hours of community engagement to observe and apply the concepts of interprofessional health care in a community-based setting. Faculty with expertise in the analysis of community-based practice lead discussions and community engagement related to population health in the local community. This course may be taken more than once. Offerings include MTW section during Thanksgiving week.
Offered: Every year, All

HSC 599. Health Science Independent Study. **1-5 Credits.**
Offered: As needed

Occupational Therapy (OT)

OT 501F. Immersive Fieldwork Experience in Psychosocial and Mental Health Practice (Fieldwork Ila). **3 Credits.**
This six- to seven-week fieldwork experience provides students with indepth opportunities to integrate theory, research and best practice in psychosocial and/or mental health settings. The experience promotes clinical reasoning, reflective practice and professionalism while enhancing one's therapeutic use of self. Practice settings may include traditional mental health agencies, community-based programs and nontraditional sites that promote psychological and social factors for occupational engagement and well-being.
Offered: Every year, Summer

OT 501S. Fieldwork Seminar. **1 Credit.**
This course runs concurrently with the mental health/psychosocial summer experience and is delivered in an online format. It is designed to enhance professional and clinical reasoning while promoting the integration of theory to practice. Students are encouraged to critique the system of care as it relates to best practice for an identified population.
Offered: Every year, Summer

OT 502. Pharmacology in Occupational Therapy Practice. **2 Credits.**
This course addresses the pharmacokinetics, side effects and drug interactions of medications prescribed to clients who are commonly referred for occupational therapy services. The course emphasizes the role of the occupational therapist in medication management as a health maintenance activity and in monitoring the impact of drug therapy on the therapeutic process and occupational performance of clients.
Offered: Every year, Summer

OT 511. Administration and Management in Occupational Therapy. **4 Credits.**
This class introduces students to the daily management functions of an occupational therapy department including planning, organizing, directing, controlling, and supervision of occupational therapy assistants and other department personnel. The course integrates students' knowledge of interventions with information related to the delivery of occupational therapy services. Topics include managed care, quality assurance, leadership, regulatory agencies, models of practice, ethics, and consultation. Students gain hands-on experience with budgeting, marketing, program evaluation, and ethical problem-solving in administration.
Offered: Every year, Fall
OT 522L. Biomechanical Interventions in Occupational Therapy. 2 Credits. This lab provides students with “hands-on” learning experience and clinical reasoning in the safe and effective application of biomechanically-oriented interventions including physical agents and modalities, orthotic fitting and fabrication, and therapeutic exercise. Students also are introduced to prosthetics and the role of occupational therapy during pre-prosthetic and prosthetic training. Students apply clinical reasoning to identify the most appropriate biomechanical interventions based on the client’s evaluation and socio-cultural factors to facilitate occupational performance. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall

OT 531. Sensory Processing and Integration. 3 Credits. This course provides an in-depth analysis of sensory processing and integration with a focus on clinical reasoning to understand and appreciate the impact of these processes on individuals, populations and community environments. Opportunities are provided to learn specific intervention strategies for individuals, as well as a systems approach emphasizing the importance of educating the team of people who support these individuals in varying contexts, to facilitate functional participation and engagement in purposeful and productive activities. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall and Spring

OT 531F. Sensory Processing and Integration Fieldwork. 1 Credit. This course provides structured fieldwork experience to observe and analyze sensory processing the pediatric population. The experience emphasize exposure to the clinical application of the Ayres’ sensory integration integration principles learned in the OT curriculum with fieldwork coordinators with advanced training. Students have the opportunity to reflect on this experience within the lecture course.
Offered: Every year, Fall and Spring

OT 531L. Sensory Processing and Integration Lab. 1 Credit. This course provides practical experientials designed to assimilate sensory processing and integration concepts. Evaluation, direct intervention and collaboration strategies in traditional environments are emphasized. Additionally, application of sensory integrative concepts into currently relevant community-based contexts and systems are explored to facilitate functional participation and engagement in purposeful, context-specific activities. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall and Spring

OT 532. Neurorehabilitation in Occupational Therapy. 3 Credits. This course provides a comprehensive overview of specialized interventions used by occupational therapy practitioners in neurorehabilitation. This course integrates the use of various theoretical models/frames of reference, current evidence and clinical/professional reasoning pertinent to the OT process in neurorehabilitation practice. Key concepts in interprofessional practice and health literacy are incorporated. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall and Spring

OT 532L. Neurorehabilitation in Occupational Therapy Practice Fieldwork. 1 Credit. This course provides a structured fieldwork experience to observe, participate in, and document the OT process with adult neurological populations in neurorehabilitation settings. Emphasis is on applying evidence and theory into practice and the development of professional identity and may observe inter- and intra-professional collaboration and patient/client education. Students have the opportunity to reflect on this experience within the lecture course.
Offered: Every year, Fall and Spring

OT 532L. Neurorehabilitation in Occupational Therapy Lab. 1 Credit. This course complements OT 532 Neurorehabilitation in OT Practice in providing a comprehensive overview of specialized interventions used by occupational therapy practitioners in neurorehabilitation. Students have the opportunity to apply methods and techniques according to various theoretical models/frames of reference and current evidence-based interventions. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall and Spring

OT 540. Special Topics in Occupational Therapy. 1.5-3 Credits. This course provides an opportunity for students to delve deeper into the specialized knowledge of the profession with evidence-based, occupation-centered practice as its core subject. Students further explore the specialized roles of the occupational therapist beyond that of a direct provider of skilled services, such as organizational/community leader, educator, case manager, entrepreneur and consultant at the systems level. In addition, students learn various modes of care delivery and systems of care including but not limited to tele-health, community building/development and train-the-trainer; they also evaluate the outcomes of such modes.
Offered: Every year, Spring

OT 541. Assistive Technology in Occupational Therapy. 2 Credits. This course provides students with exposure to advanced intervention techniques related to assistive technology in occupational therapy. The course focuses on application of assistive technology across the lifespan, and thus emphasizes use of both interventions in a variety of practice contexts and practice settings. Since technology options change rapidly, emphasis is on the clinical reasoning process used to select and evaluate interventions in rehabilitation, home, work, leisure and community technology-related practice areas. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall

OT 541L. Assistive Technology in Occupational Therapy Lab. 1 Credit. This lab course provides students with hands-on experience in advanced intervention techniques related to assistive technology in occupational therapy. The course focuses on application of assistive technology across the lifespan, and thus emphasizes use of both interventions in a variety of practice contexts and practice settings. Since technology options change rapidly, emphasis is on the clinical reasoning process used to select and evaluate interventions in rehabilitation, home, work, leisure and community technology-related practice areas. Prerequisite: Matriculation as an MOT student.
Offered: Every year, Fall

OT 542. Work and Ergonomics. 3 Credits. This course focuses on the occupation of work applied across the lifespan and to various practice contexts and worker challenges. The course addresses topics related to the occupation of work, including employment acquisition, job performance, volunteerism, and retirement. Work tasks and work demands are analyzed relative to physical, cognitive, social, organizational, and environmental factors that impact job performance. Modifications that optimize worker functioning are examined as prevention and as rehabilitation. Prerequisite: Matriculation as an MOT student
Offered: Every year, Fall
OT 550. OT Research Methods. 4 Credits. This course addresses the importance of research in the practice of occupational therapy. The course examines the research approaches and methods in occupational therapy practice. Students participate in designing and implementing entry-level research studies as well as analyzing and interpreting the professional literature. Students begin work on their spring capstone project. 

Offered: Every year, Fall

OT 555. Critical Writing I. 3 Credits. This course is the first in a sequence of courses focusing on scholarly reading and writing. Students investigate a specific area of interest, describe best practices as supported by evidence and theory and learn how to conduct a peer review of writing.

Offered: Every year, Spring Online

OT 556. Professional Development. 3 Credits. This distance learning course focuses on the current issues related to the roles of the student transitioning to professional. The course emphasizes linking theory to practice, self-analysis and reflection upon academic experience, and relating those to different facets of clinical and professional reasoning as a funding mechanism in practice. Continued professional growth through the development of understanding of personal and professional responsibilities as a practicing therapist and a commitment to lifelong learning and professional advocacy also are addressed. Grant writing is included.

Offered: Every year, Spring

OT 557. Integrative Case Studies. 2 Credits. This course explores individual, group and population case studies of clients in occupational therapy. Students analyze each case using clinical reasoning, qualitative research strategies, frames of reference and best practices to develop integrative evaluation and intervention skills.

Offered: Every year, Spring

OT 570. Capstone Graduate Projects. 3 Credits. This capstone course is a culminating experience in the occupational therapy curriculum, which integrates all course-based material and fieldwork experiences with practical application. Students participate in designing and executing a research or creative project that is relevant to current and emerging practice areas in occupational therapy. Students gain experience in project management, critical analysis and professional presentations.

Offered: Every year, Spring

OT 580. Fieldwork Level IIA. 6 Credits. This 12-week supervised experience provides the student with the opportunity to apply theory, evidence, and professional reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of settings. Students have the opportunity to engage in in-depth reflections regarding professionalism and professional identity through concurrent online seminars. Students are expected to abide by program policies outlined in the OT Fieldwork Handbook.

Offered: Every year, Summer

OT 581. Fieldwork Level IIB. 6 Credits. This 12-week supervised experience provides the student with the opportunity to apply theory, evidence, and professional reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of settings. Students have the opportunity to engage in in-depth reflections regarding professionalism and professional identity through concurrent online seminars. Students are expected to abide by program policies outlined in the OT Fieldwork Handbook.

Offered: Every year, Summer

OT 599. OT Independent Study. 1-3 Credits. 

Offered: As needed

OT 565. Integrative Case Studies. 2 Credits. This course explores individual, group and population case studies of clients in occupational therapy. Students analyze each case using clinical reasoning, qualitative research strategies, frames of reference and best practices to develop integrative evaluation and intervention skills.

Offered: Every year, Spring

OT 570. Capstone Graduate Projects. 3 Credits. This capstone course is a culminating experience in the occupational therapy curriculum, which integrates all course-based material and fieldwork experiences with practical application. Students participate in designing and executing a research or creative project that is relevant to current and emerging practice areas in occupational therapy. Students gain experience in project management, critical analysis and professional presentations.

Offered: Every year, Spring

OT 580. Fieldwork Level IIA. 6 Credits. This 12-week supervised experience provides the student with the opportunity to apply theory, evidence, and professional reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of settings. Students have the opportunity to engage in in-depth reflections regarding professionalism and professional identity through concurrent online seminars. Students are expected to abide by program policies outlined in the OT Fieldwork Handbook.

Offered: Every year, Summer

OT 581. Fieldwork Level IIB. 6 Credits. This 12-week supervised experience provides the student with the opportunity to apply theory, evidence, and professional reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of settings. Students have the opportunity to engage in in-depth reflections regarding professionalism and professional identity through concurrent online seminars. Students are expected to abide by program policies outlined in the OT Fieldwork Handbook.

Offered: Every year, Summer

OT 599. OT Independent Study. 1-3 Credits. 

Offered: As needed
OT 631. CAGS Hand Therapy II. 3 Credits.
This course is the second in a series of hand therapy courses. Building on the first course, students continue to explore best practices and evidence and have the opportunity to synthesize their knowledge through a critique of clinical protocols and practice guidelines. The course culminates with a plan of action to further advance one’s professional development.
Offered: Every year, Summer Online

OT 635. Scholarly Use of Evidence in Writing. 3 Credits.
This course is the second in a sequence of courses focusing on scholarly reading and writing. Emphasis on determining proper use of evidence occurs throughout the course. Synthesis of scholarly evidence and literature culminates in the creation of a manuscript for submission to a professional trade magazine or journal.
Prerequisites: Take OT 615.
Offered: Every year, Summer Online

OT 640. Directed Study in Evidence-Based Practice. 3 Credits.
Students learn the steps of the evidence-based practice continuum. Each student follows the steps using actual practice case studies from his/her individual practice sites and presents the responses to each step in the process to discover evidence to guide the practice case questions. Peer interaction and feedback is critical to the realistic development of evidence to guide practice decisions. A major assignment is to have each student participate in the writing of a systematic review or an evidence-based practice brief for the profession. Students complete a needs assessment of a particular site or practice area as well.
Prerequisites: Take OT 654.
Offered: Every year, Spring

OT 650. Application of Theory and Exploration of Occupation. 3 Credits.
This course explores occupation—the central construct of the profession, and occupational science as a disciplinary knowledge base of the profession. Students examine a variety of theories relevant to occupational therapy and analyze their practice using critical theory.
Offered: Every year, Spring

OT 651. Systems. 3 Credits.
Knowledge of health care delivery in the U.S. is fundamental to providing occupational therapy services. A key element to providing relevant health care services is an understanding of the broader systems that influence and drive delivery models. This course addresses the general systems model as applied to the delivery of health care services. System components are addressed including the resources, the internal processes, external influences, measurable outcomes and stakeholders in service delivery systems. The course examines the range of service delivery models in OT including the traditional medical model, school-based, community, educational, home health, hospice and telehealth, among others. The course prepares students to analyze the key components of delivery system and determine how OT services are optimized in specific models.
Offered: Every year, Fall

OT 652. Doctoral Seminar. 1 Credit.
Students develop learning strategies for doctoral work and explore contemporary leadership theory and create a professional development plan for doctoral work with goals and objectives related to becoming an agent of change.
Offered: Every year, Fall

OT 653. Policy/Ethics. 2 Credits.
The future leaders of the profession need an understanding of the political and legal policies impacting occupational therapy, as well as the ethics involved in decision making. Students explore the role of the occupational therapist in advocacy as well as the concepts of social justice. The impact of these policies and decisions are reviewed in relationship to all settings and the occupational as well as psychosocial well-being of the individual client and populations of clients.
Offered: Every year, Fall

OT 654. Critical Inquiry of Scholarship. 3 Credits.
This course is the first of a series of courses focusing on scholarship in the profession. Emphasis is placed on understanding qualitative and quantitative research methods and building a solid foundation needed to carry out a scholarly project. This course covers the scholarship process, with a focus on developing a question for scholarly exploration, ways of answering questions and approaches to analyzing results.
Offered: Every year, Fall

OT 655. Professional Seminar. 3 Credits.
This course integrates prior learning into the discussion of how to become an "agent of change" within systems. Topics include advocacy, leadership and leadership theories, group dynamics and change management. Student integrate this knowledge through the development of a program proposal and evaluation.
Offered: Every year, Summer

OT 656. Critical Inquiry of Scholarship II. 4 Credits.
This course is the second of a series of courses focusing on scholarship in the profession. Emphasis is placed on developing a proposal for a scholarly project. Drawing on the content of OT 654 students develop the background to the project and problem statement, questions guiding the project informed by theory, and write a design a scholarly proposal in regards to ethical policies and procedures necessary to conduct research.
Prerequisites: Take OT 640, OT 654.
Offered: Every year, Summer

OT 660. Seminar: Innovations and Emerging Issues in Children and Youth. 3 Credits.
The OT seminars OT 660 and OT 662 present core content that is the same for both courses during weeks one and two. The focus of the core weeks is on environmental scanning for evidence of change and locating evidence in the literature for that change. Weeks four through seven focus on the individual theme as selected by each student.
Offered: Every year, Fall

OT 662. Seminar: Innovations and Emerging Issues in the Adult Health Care Continuum. 3 Credits.
The OT seminars OT 660 and OT 662 present core content that is the same for both courses during weeks one and two. The focus of the core weeks is on environmental scanning for evidence of change and locating evidence in the literature for that change. Weeks four through seven focus on the individual theme as selected by each student.

OT 663. Seminar: Innovations and Emerging Issues. 3 Credits.
This course will initially focus on environmental scanning for evidence of change and locating evidence in the literature for that change within a student-identified area of interest. Then, weeks four through seven focus on the individual theme as selected by each student.
Offered: Every year, Spring
OT 670. Leadership in Program Development/Business. 3 Credits. Students analyze leadership styles as they relate to supervision in both public and private sectors. The course includes a review of skills required to be an entrepreneur, own a practice and navigate the policies required of a business. Offered: Every year, Spring

OT 671. Leadership in Higher Education. 3 Credits. Students analyze trends in higher education and healthcare. Building on these trends students create one course including a full syllabus, learning objectives, learning outcomes, and assessment. This course provides a foundation for teaching in the future, either full or part time.

OT 680. Capstone I. 2 Credits. This capstone course is a culminating experience in the occupational therapy curriculum, which integrates all core material. Students design and execute a scholarly or creative project that is relevant to current and emerging practice areas in occupational therapy. Students gain experience in project management, critical analysis and professional presentations. Offered: Every year, Fall

OT 681. Capstone II. 2 Credits. This capstone course is a culminating experience in the occupational therapy curriculum, which integrates all core material. Students design and execute a scholarly or creative project that is relevant to current and emerging practice areas in occupational therapy. Students gain experience in project management, critical analysis and professional presentations. Offered: Every year, Fall

OT 699. OT Independent Study. 1-6 Credits. Offered: As needed

OT 700. Philosophy and Science of Occupational Therapy. 3 Credits. This course presents the philosophical, historical and scientific foundations of the occupational therapy profession and their relevance to contemporary practice. From a philosophical perspective, the course unpacks the epistemology (knowledge), ontology (reality/view) and axiology (actions/methods) of the profession. The evolution of practice throughout history and current and emerging trends in practice is analyzed with respect to meeting societal needs. Offered: Every year, Summer

OT 701. Occupational Therapy Theory. 3 Credits. This course explores how occupations influence health and well-being from a historical, developmental, and evidence-based perspective. Current and emerging occupation-based models are analyzed and applied as theoretical foundations in the promotion of health, prevention of disease, and management of occupational disruptions across the life span. Complementary healthcare models and current global social political issues are highlighted. Offered: Every year, Fall

OT 702L. OT Service Learning. 1 Credit. This course applies the concepts of observation and therapeutic use of self to a community setting where the students observe and conduct and applied activity analysis of the clients/community and/or the population in order to design service projects that meet the occupational needs of those being served in the setting. Application of context variable analysis and service provision in a meaningful occupation provides a natural experience of learning about human occupations. Offered: Every year, Fall

OT 703. OT Practice Framework and Professional Reasoning. 3 Credits. This course explores the vocabulary of the profession, The Occupational Therapy Practice Framework, and links the terminology to knowledge and skills in the identification and analysis of occupation in context, personal factors and occupational performance and the application of clinical reasoning to the occupational therapy process. Offered: Every year, Fall

OT 705. Research Methods and Evidence-Based Practice. 3 Credits. This course addresses research fundamentals in the practice of occupational therapy. The course examines research epistemology, methods, research designs, and data analysis in occupational therapy research. Levels of evidence are addressed and applied to decisions in occupational therapy interventions. Students gain experience developing research procedures, critically analyzing data, and identifying ethical issues involved in developing a research study. Offered: Every year, Fall

OT 710. Clinical Anatomy in OT Practice. 4 Credits. This course provides a comprehensive study of the musculoskeletal system with emphasis on clinical correlation to occupational therapy practice and the biomechanical basis of occupational performance. The course has a corresponding dissection and palpation lab. Offered: Every year, Summer

OT 710L. Clinical Anatomy in OT Practice Lab. 1 Credit. This laboratory course involves dissection, visual examination, and surface palpation as part of a comprehensive study of the human anatomy. Emphasis is in the thorough examination of the musculoskeletal system and select components of the nervous system relative to the anatomical and biomechanical bases of occupational performance. Offered: Every year, Summer

OT 711. Applied Kinesiology. 2 Credits. This course integrates information from Human Anatomy with principles of biomechanics and their application to occupational therapy practice. Emphasis is on the biomechanical analysis of human occupations and performance. Key concepts in clinical kinesiology are presented as essential elements to the OT process. Offered: Every year, Fall

OT 711L. Applied Kinesiology Lab. 1 Credit. This laboratory course provides a comprehensive review of fundamentals of musculoskeletal assessment relevant to occupational therapy practice. This course applies and integrates the concepts learned in the lecture course, OT 521. Offered: Every year, Fall

OT 712. Neuroanatomy in OT Practice. 3 Credits. This course provides a comprehensive study of neuroanatomy including the structures, functions and physiology of neural systems and examines the interrelationships of neuroanatomical structures, subsystems and neurophysiologic processes involved in human behaviors, which are the foundation for occupational performance. The course also introduces basic neurobehaviors and dysfunctions. Offered: Every year, Summer

OT 713. Applied Neuroscience. 2 Credits. This course builds on neuroanatomy as it examines the interrelationships of neuroanatomical structures, subsystems and neurophysiologic processes involved in human behaviors, which are the foundation for occupational performance. Specifically, students learn the neural substrates and mechanisms of motor behaviors, sensory-perception, emotions, language, attention, memory and learning. Offered: Every year, Fall
OT 713L. Applied Neuroscience Lab. 1 Credit.
This course builds on functional neuroanatomy and is an adjunct to Applied Neuroscience as it examines the interrelationships of neuroanatomical structures, subsystems and neurophysiologic processes involved in human behaviors, which are the foundation for occupational performance and applies screening procedures. Specifically, students learn the neural substrates and mechanisms of motor behaviors, sensory-perception, emotions, language, attention, memory and learning. The course also introduces basic screening procedures to identify neurobehavioral dysfunctions.
Offered: Every year, Fall

OT 720. Occupational Therapy Mental Health and Psychosocial Practice I. 3 Credits.
This course highlights OT’s distinct value in addressing psychosocial and mental health needs among children and youth, groups and organizations. Emphasis is on the distinct nature of occupation in promoting mental health, preventing disease, and managing life disruptions. Scientific evidence and theories guide the student’s learning of the OT process across the continuum of service delivery.
Offered: Every year, Spring

OT 720L. Occupational Therapy Mental Health and Psychosocial Practice I Lab. 1 Credit.
This course builds on concepts from OT 720 highlighting OT’s distinct value in addressing psychosocial and mental health needs among children and youth, groups and organizations. Students practice assessments and evidence-based intervention modalities for various mental health conditions across the lifespan. Application of theoretical models and frames of reference are highlighted. Additionally, students enhance observation skills needed for documentation and practice verbal interventions related to therapeutic modes.
Offered: Every year, Spring

OT 721. OT Mental Health and Psychosocial Practice II. 3 Credits.
This course highlights OT’s distinct value in addressing psychosocial and mental health needs among adult and older adult populations, groups, and organizations. Emphasis is on the role of occupation in promoting mental health, preventing disease and managing life disruptions. OT, psychosocial, & group theories, as well as, group interventions are highlighted. Related skills such as documentation, therapeutic use of self and evidence-based practice are emphasized.
Offered: Every year, Fall

OT 721F. OT Mental Health and Psychosocial Practice II Fieldwork. 1 Credit.
This course provides structured fieldwork observation in various settings working with the mental health and psychosocial populations across the lifespan. It allows the student to observe and explore the evaluation and intervention process utilized in occupational therapy. Students have the opportunity to observe and report on the variety of assessment and intervention tools utilized across a continuum of service delivery. Students develop an appreciation for the frames of reference used in the models of practice, as a guide to the evaluation and intervention process.
Offered: Every year, Fall

OT 721L. OT Mental Health and Psychosocial Practice II Lab. 1 Credit.
This lab builds upon concepts from OT 512 highlighting OT’s distinct value in addressing psychosocial and mental health needs among adult and older adult populations, groups, and organizations. Emphasis is on the role of occupation in promoting mental health, preventing disease and managing life disruptions. Group theory and evidence-based group interventions are practiced to promote leadership skills and therapeutic use of self. A culminating group protocol assignment integrates theory, practice, and research.
Offered: Every year, Fall

OT 722. Occupational Therapy for Children and Youth I. 6 Credits.
This course provides a comprehensive overview evaluation and interventions used by occupational therapy practitioners for children and youth. Traditional theoretical models/frames of reference and current evidence is utilized as a basis for the clinical/professional reasoning process applicable to the OT process for children and youth so that facilitators and barriers to occupational performance can be identified. Documentation related to contextual philosophies, procedures and regulations dictating pediatric practice is highlighted throughout the course.
Offered: Every year, Spring and Summer

OT 722F. Occupational Therapy for Children and Youth I Fieldwork. 1 Credit.
This course provides structured fieldwork observation in various settings working with the children/youth population. It allows the student to observe and explore the evaluation and intervention process utilized in occupational therapy. Students also have the opportunity to observe and report on the variety of assessment and intervention tools utilized within the models of health care for the children and youth population.
Offered: Every year, Spring and Summer

OT 722L. Occupational Therapy for Children and Youth I Lab. 1 Credit.
This course highlights OT’s distinct value in addressing psychosocial and mental health needs among children and youth. The safe, efficient, and culturally sensitive delivery of specific assessment and intervention techniques are highlighted.
Offered: Every year, Spring and Summer

OT 723. Occupational Therapy for Children and Youth II. 6 Credits.
This course focuses on specialized interventions for individuals and populations with sensory integrative and processing difficulties and brain-based behavioral challenges. It integrates the use of the SI frame of reference with previously learned theoretical models and apply best available evidence and clinical/professional reasoning to various systems (e.g., state/federal regulations for early intervention and school-based practice, insurance funding, and community-based health and wellness initiatives). Documentation within these various systems are illustrated, discussed and produced.
Offered: Every year, Fall and Spring

OT 723F. OT for Children and Youth II Fieldwork. 1 Credit.
This course provides structured fieldwork observation in sensory integration settings and allows the student to observe and explore the intervention process utilized in these frames of reference. Students have the opportunity to see, observe and report on the variety of intervention strategies utilized within the various models such as health care, education, community and social systems. The settings utilized are equipped to provide clinical application of principles learned in the OT curriculum and focus on the sensory integration intervention process.
Offered: Every year, Fall and Spring
OT 723L. OT for Children and Youth II Lab. 1 Credit. This lab integrates the advanced intervention techniques/specialized interventions used by occupational therapy practitioners for individuals and populations with sensory integrative and processing difficulties, developmental disabilities and brain-based behavioral challenges. Opportunities are provided to learn specific interventions required for a variety of occupational therapy practice contexts and with consideration of cultural and environmental factors. 

Offered: Every year, Fall and Spring

OT 724. Occupational Therapy for Adults and Older Adults I. 6 Credits. This course provides a comprehensive overview of assessments and interventions used by occupational therapy practitioners in general medicine/surgery, neurology and orthopedics. The course integrates the use of various theoretical models/frames of reference, current evidence, and clinical/professional reasoning pertinent to the OT process. Documentation is highlighted throughout the course including for traditional systems for individual and population-based approaches. Key concepts in interprofessional practice and health literacy are incorporated.

Offered: Every year, Spring and Summer

OT 724F. Occupational Therapy for Adults and Older Adults I Fieldwork. 1 Credit. This course provides structured fieldwork observation in various settings working with the adult population. It allows the student to observe and explore the evaluation and treatment process utilized in occupational therapy with adults and older adults. Students develop an appreciation for the frame of reference used in the models of practice as a guide to evaluation and treatment.

Offered: Every year, Spring and Summer

OT 724L. Occupational Therapy for Adults and Older Adults I Lab. 1 Credit. This lab course complements the OT 532 and OT 532F and provides opportunity for experiential learning of the evaluation process and intervention techniques used in occupational therapy for adults and older adults. The safe, efficient and culturally sensitive delivery of specific assessment and intervention techniques are highlighted.

Offered: Every year, Spring and Summer

OT 725. OT for Adults and Older Adults II. 6 Credits. This course provides a comprehensive overview of specialized interventions used by occupational therapy practitioners in neurorehabilitation, oncology and geriatrics/gerontology. The course integrates the use of various theoretical models/frames of reference, current evidence, and clinical/professional reasoning pertinent to the OT process in neurorehabilitation practice. Documentation is highlighted throughout the course for traditional and emerging systems for individual and population-based approaches. Key concepts in interprofessional practice and health literacy are incorporated.

Offered: Every year, Fall and Spring

OT 725F. OT for Adults and Older Adults II Fieldwork. 1 Credit. This course provides structured fieldwork observation in neurorehabilitative settings and allows the student to observe and explore the intervention process utilized in these frames of reference. The settings utilized are equipped to provide clinical application of principles learned in the OT curriculum and focus on the neurorehabilitation intervention process.

Offered: Every year, Fall and Spring

OT 725L. OT for Adults and Older Adults II Lab. 1 Credit. This lab integrates the advanced intervention techniques discussed and described in the lecture portion of this class. Opportunities are provided to learn specific interventions required for a variety of occupational therapy practice contexts and with consideration of cultural and environmental factors.

Offered: Every year, Fall and Spring

OT 726. Technology in OT Practice. 2 Credits. This course provides students with opportunities to demonstrate knowledge and apply practice in the use of technology that includes assistive virtual and telehealth technology. The course focuses on application of technology across the lifespan, emphasizing a variety of practice contexts and practice settings. Since technology options change rapidly, emphasis is on the clinical reasoning processes in the utilization of technologies in education, home, work, leisure and community practice domains.

Offered: Every year, Summer

OT 726L. Technology in OT Practice Lab. 1 Credit. This lab provides students with opportunities to practice the design and fabrication and use of technology in practice that includes assistive technology; virtual environments in practice and telehealth technology. This lab must be completed concurrently with OTD 641 the lecture component of Technology in OT Practice.

Offered: Every year, Summer

OT 727. Work and Ergonomics. 3 Credits. This course focuses on the occupation of work applied across the lifespan and to various practice contexts and worker challenges. The course addresses topics related to the occupation of work, including employment acquisition, job performance, volunteerism, and retirement. Work tasks and work demands are analyzed relative to physical, cognitive, social, organizational, and environmental factors that impact job performance. Modifications that optimize worker functioning are examined as prevention and as rehabilitation.

Offered: Every year, Spring

OT 728L. Biomechanical Intervention Lab. 2 Credits. Students experience hands on learning in biomechanical principles such as splinting, physical agent modalities, and therapeutic exercise programs. Specifically, students evaluate and fabricate splints for specific diagnoses and discuss the role of splinting as part of an overall intervention plan. Students are introduced to various prosthetic devices and the role of occupational therapy during pre-prosthetic and prosthetic training. Students demonstrate the ability to use and apply various physical agent modalities to intervention planning assignments.

Offered: Every year, Spring

OT 730. Administration and Management of Systems. 3 Credits. This class introduces students to the systems involved in delivering occupational therapy services in health care, educational and community-based environments. Students examine components of service delivery including external influences, internal processes, communication, reimbursement and measurable outcomes to understand how occupational therapy services are optimized. The course addresses core management functions including planning, organizing, directing and controlling. Students gain hands-on experience with strategic planning, budgeting, marketing, program evaluation and conflict management.

Offered: Every year, Spring
OT 731. Leadership and Change. 2 Credits.
This course addresses the means to become an "agent of change" within the occupational therapy environment using leadership approaches. Leadership theories are addressed and applied to supervision, advocacy, and mentoring. Students self-reflect on leadership and communication styles and strategies to promote effective supervision for groups both internal and external to occupational therapy.
Offered: Every year, Summer

OT 751. Capstone Seminar I - Exploration. 2 Credits.
This course is the first of a series of capstone seminars designed to assist the students in understanding the elements and process of developing a culminating signature project in the OTD program. Students explore personal interests, opportunities and the social context around topic areas. They develop skills of conducting an environmental scan and needs assessment relative to their project interests. Students identify program evaluation methods and ultimately present a capstone proposal as an initial plan for their capstone project.
Offered: Every year, Fall

OT 752. Knowledge Translation and Synthesis. 3 Credits.
This course focuses on the assessment, review and utilization of research to inform policy and improve practice. Students actively engage in multiple components of the knowledge translation process including defining the problem, searching for and critically appraising the evidence. Students work in small groups to apply this information to the development of a clinical practice guideline. Competencies acquired in this course are integral to the Capstone process.
Offered: Every year, Spring

OT 753. Capstone Seminar II - Planning. 2 Credits.
This course is the second of a series of Capstone seminars leading to the Doctoral Capstone Experience and Project. This course is specifically designed to assist the students in finalizing their Doctoral Capstone Project (DCP) proposal based on a needs assessment. Students are expected to complete a comprehensive literature review that serves as justification for the DCP.
Offered: Every year, Summer

OT 754. Capstone Seminar III - Preparation. 2 Credits.
This course is the third of a series of Capstone seminars designed to assist the students in planning their Doctoral Experiential Component. Under faculty mentorship, students design a 14-week experience and project plan that outlines goals and objectives, as well as formal evaluation mechanism. Students write the methods section of the formal capstone project paper.
Offered: Every year, Spring

OT 760. Special Topics Or Independent Study. 3 Credits.
Students delve deeper into the specialized knowledge of the profession with evidence-based, occupation-centered practice as its core subject. Exploration of specialized roles beyond that of a direct provider of skilled services, such as educator, case manager and consultant at the systems level. Students also learn various modes of care delivery and systems of care and evaluate the outcomes of such modes.
Offered: Every year, Spring

OT 762. Health Policy, Law, and Advocacy. 3 Credits.
This course prepares students as future leaders of the profession who need an understanding of the political and legal policies impacting occupational therapy, as well as the ethics involved in decision making. The role of the occupational therapist in advocacy as well as the concepts of social justice is explored as well.
Offered: Every year, Spring

OT 764. Business Leadership and Entrepreneurship in OT. 3 Credits.
This course provides an overview of business development and entrepreneurship for occupational therapy practitioners within today's health care environment, including public initiatives for health and wellness and prevention for society. Leadership concepts are threaded in the context of a business enterprise.
Offered: Every year, Spring

OT 766. Methods of Teaching and Learning in OT. 3 Credits.
This course introduces students to the principles of the teaching-learning process in order to meet the needs of clients, family, significant others, communities, colleagues, other health providers and the public. Concepts discussed include health literacy, assessment of learning outcomes, factors which may influence the teaching-learning process, instructional methods and best practices in clinical and academic teaching.
Offered: Every year, Summer

OT 780. Fieldwork Level IIA. 6 Credits.
This 12-week full-time supervised fieldwork experience provide the student with the opportunity to apply theory and clinical reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of life environments. Students must abide by all fieldwork policies as listed in the Student Fieldwork Manual. This is the first of two required level II experiences.
Offered: Every year, Summer

OT 781. Fieldwork Level IIB. 6 Credits.
This 12-week full-time supervised fieldwork experience provide the student with the opportunity to apply theory and clinical reasoning skills to the occupational therapy evaluation and intervention process for clients across the life span and in a variety of life environments. Students must abide by all fieldwork policies as listed in the Student Fieldwork Manual. This is the second of two required level II experiences and is different in setting/population from OTD 580.
Offered: Every year, Fall

OT 782. Professional Development. 2 Credits.
This course focuses on the current issues related to transitioning from student to professional roles and responsibilities. Topics include updates in the OT profession with a focus on official documents; emerging roles of OT in practice; credentialing, licensure and continuing competence/professional development. Contemporary issues of practice such as access to services, advocacy and inter-/intra-professional collaboration are explored.
Offered: Every year, Spring

OT 790. Doctoral Project Seminar. 2 Credits.
This seminar course is designed to facilitate the completion of the student's Doctoral Capstone Project and promote an in-depth reflection on the program learning outcomes. The seminar runs concurrently with the Doctoral Capstone Experience where specific competencies representing in-depth knowledge of practice are synthesized. The final outcome of the seminar is a scholarly manuscript and public dissemination of the Doctoral Capstone Project.
Offered: Every year, Summer
**Pathology (PA)**

**PA 502. Medical Terminology: Advanced.** 2 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. Students study the etymology of medical and surgical terms with an emphasis on the principles of word analysis, construction and evolution. The course includes a review of anatomy and abstraction of current published case studies.  
**Offered:** Every year, Summer

**PA 505. Forensic Pathology.** 2 Credits.  
This course introduces the principles of forensic pathology as it pertains to the scope of practice for a pathologists’ assistant. Students will apply the concepts learned throughout the course to satisfy NAACLS accreditation standards in forensic pathology and to prepare the student for the ASCP certification/licensure examination upon graduation. This course will review specific types of circumstances in which a forensic autopsy provides the best opportunity for competent investigation.  
**Offered:** Every year, Summer

**PA 506. Forensic Imaging.** 2 Credits.  
The course provides an introduction to the principles of diagnostic imaging and its applications in forensics. The advantages and disadvantages of various imaging modalities for the examination of specimens and cadavers are presented as well as radiation safety, x-ray and image production, types of recording media and radiographic exposure. Students will apply the concepts learned throughout the course to navigate and troubleshoot basic radiographic simulation scenarios.  
**Offered:** Every year, Summer

**PA 511. Human Microscopic Anatomy.** 4 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. Human anatomy at the light microscopic level is explored through a general and systemic approach using a lecture-lab combination. Students are introduced to primary tissues and their cellular components followed by system (organ) investigation morphologically that uses the light microscope emphasizing pattern recognition as the mechanism employed for tissue identification.  
**Offered:** Every year, Fall

**PA 512. Human Anatomy.** 4 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. This course covers dissection of the human body with particular attention to the morphological relationships of individual organ systems. Emphasis is placed on internal anatomy as a major facet of this instruction that is designed for eventual autopsy evasion and subsequent dissection.  
**Offered:** Every year, Summer

**PA 512L. Human Anatomy Lab.** 0 Credits.  
Lab to accompany PA 512.  
**Offered:** Every year, Summer

**PA 513. Basic Human Pathology I.** 3 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. This series of lectures utilizes slides of gross and microscopic pathology starting with a general introduction to pathology covering inflammation and neoplasia, and then progressing to pathology by the systems such as cardiovascular, endocrine and gastrointestinal systems.  
**Offered:** Every year, Fall

**PA 514. Basic Human Pathology II.** 3 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. This series of lectures utilizes slides of gross and microscopic pathology of specific areas of disease in a systemic approach including such specialty areas as dermatologic, perinatal, pediatric and forensic pathology as well as the genitourinary, musculoskeletal, respiratory and neuropathology systems.  
**Offered:** Every year, Spring

**PA 515. Human Physiology.** 4 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. Various aspects of human physiology are examined, with emphasis on the physiologic and biochemical function. The fundamental functional principles for general and systematic organ systems are covered.  
**Offered:** Every year, Summer

**PA 516. Clinical Pathology.** 4 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. Clinical relationships to disease are examined, highlighting such topics as hematology, chemistry, toxicology, serology, urinalysis, blood banking and cytology. Basic techniques and theoretical applications from a case history medical approach are emphasized.  
**Offered:** Every year, Spring

**PA 517. Applied Anatomic Pathology.** 4 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. Basic principles of clinical history taking, physical examinations and general medical terms and symbols are studied. Emphasis is on autopsy and surgical techniques of evisceration and organ system dissection through lectures, films, slides and practical exposure.  
**Offered:** Every year, Spring

**PA 518. Laboratory Management.** 3 Credits.  
This course is intended for students enrolled in the pathologists’ assistant program. The organization and function of an anatomic pathology laboratory is investigated to include ordering supplies, money management, computerization, laboratory safety, organization compliance (JACHO, CAP, OSHA) and quality assurance.  
**Offered:** Every year, Fall

**PA 520. Autopsy Pathology I.** 6 Credits.  
This course is only for second-year pathologists’ assistant students. This three-semester rotational, practical course on the techniques of autopsy dissection includes summarization of clinical histories and gross autopsy findings. The 12-month rotation involves several different hospitals in both community and university settings.  
**Offered:** Every year, Summer

**PA 521. Autopsy Pathology II.** 6 Credits.  
This course is only for second-year pathologists’ assistant students. This three-semester rotational, practical course on the techniques of autopsy dissection includes summarization of clinical histories and gross autopsy findings. The 12-month rotation involves several different hospitals in both community and university settings.  
**Offered:** Every year, Fall
School of Health Sciences

PA 522. Autopsy Pathology III. 6 Credits.
This course is only for second-year pathologists’ assistant students. This three-semester rotational, practical course on the techniques of autopsy dissection includes summarization of clinical histories and gross autopsy findings. The 12-month rotation involves several different hospitals in both community and university settings.
Offered: Every year, Spring

PA 523. Surgical Pathology I. 6 Credits.
This course is only for second-year pathologists’ assistant students. This is a three-semester inclusive practical course in methods of gross tissue description, dissection and preparation, fixation and storage of surgical specimens for light, immuno-fluorescent, immunochemical, frozen and electron microscopy. The 12-month rotation involves several different hospitals in both community and university settings.
Offered: Every year, Summer

PA 524. Surgical Pathology II. 6 Credits.
This course is only for second-year pathologists’ assistant students. This is a three-semester inclusive practical course in methods of gross tissue description, dissection and preparation, fixation and storage of surgical specimens for light, immuno-fluorescent, immunochemical, frozen and electron microscopy. The 12-month rotation involves several different hospitals in both community and university settings.
Offered: Every year, Fall

PA 525. Surgical Pathology III. 6 Credits.
This course is only for second-year pathologists’ assistant students. This three-semester inclusive practical course covers methods of gross tissue description, dissection and preparation, fixation and storage of surgical specimens for light, immuno-fluorescent, immunochemical, frozen and electron microscopy. The 12-month rotation involves several different hospitals in both community and university settings.
Offered: Every year, Spring

PA 526. Biomedical Photography. 4 Credits.
This course is only for second-year pathologists’ assistant students. This is a team-taught course designed to give the pathologists’ assistant student a basic background leading to practical application of photographic techniques used in the anatomic pathology laboratory. It also includes an introduction to the principles of imaging radiography. The course is divided into three parts over two summer-school semesters: basic photographic principles and technique; the theoretical and practical aspects of photomacrography and photomicrography as they are applied to anatomic specimens and imaging radiology.
Offered: Every year, Summer

PA 535. Disease Mechanisms. 4 Credits.
This course is only for second-year pathologists’ assistant students. This course investigates how the normal physiology of the human body is altered in disease states. The mechanisms by which diseases become established, cause damage and alter organ system function are established. Natural body responses and therapeutic measures are examined for their mode of action, side effects and after effects.
Offered: Every year, Fall

Perfusion (PR)

PR 500. Theoretical Foundations of Cardiovascular Perfusion. 2 Credits.
This course exposes students to role expectations, practice, ethics and professionalism. Students gain an appreciation of the history of key individuals and progress through discoveries that influenced the development of current practice in cardiothoracic surgery and extracorporeal circulation. Students become familiar with the role of organizations that impact their field, including those responsible for overseeing national certification exams and continuing education programs. A minimum grade of B is required to progress.
Offered: Every year, Fall

PR 502. Systems Anatomy and Physiology I. 3 Credits.
This course examines selected organ systems 503 procedures performed by the perfusionist. Students study the structure and function of the cardiovascular, lymphatic, immune and pulmonary systems. Emphasis is placed on group discussion and the application of knowledge to solving problems that arise in clinical situations. A minimum grade of B is required to progress.
Offered: Every year, Fall

PR 503. Systems Anatomy and Physiology II. 3 Credits.
This course examines selected organ systems pertinent to cardiopulmonary bypass and related procedures performed by the perfusionist. Students study the structure and function of the nervous, hepatic, renal and endocrine systems. Emphasis is placed on group discussion and application of knowledge to solving problems that arise in clinical situations. A minimum grade of B is required to progress.
Prerequisites: Take PR 500, PR 502, PA 535, PR 508, PR 516.
Offered: Every year, Spring

PR 506. Pharmacologic Intervention in Cardiovascular Perfusion. 4 Credits.
This course is an intensive study of pharmacokinetics, pharmacodynamics, mechanism of action, indications and contraindication of drugs administered to the patient undergoing cardiopulmonary bypass. Cardiovascular drugs, anticoagulants and anesthetic agents administered by the perfusionist are emphasized. Students also become familiar with many drugs used to treat other disease states that may be taken by patients with significant comorbidities. A minimum grade of B is required to progress.
Prerequisites: Take PR 500, PR 502, PA 535, PR 508, PR 516.
Offered: Every year, Spring

PR 508. Extracorporeal Circuitry and Laboratory I. 1 Credit.
Students receive orientation in both the laboratory and the cardiac operating room to equipment operation and techniques applicable to providing extracorporeal circulation during cardiac surgical procedures. Emphasis is placed on developing student skills in researching best practice methods as found in the medical literature. Competent operation of equipment, including the heart lung machine, ventricular assist devices, intra-aortic balloon counterpulsation pump, and autologous blood recovery devices must be demonstrated. A minimum grade of B is required to progress.
Offered: Every year, Fall
PR 509. Extracorporeal Circuitry and Lab II. 1 Credit.
This intensive study of the appropriate procedures for providing extracorporeal circulation for a variety of purposes includes operation of specialized medical devices, quality control and troubleshooting techniques. Intra-aortic balloon counterpulsation, autologous blood recovery and ventricular assist devices are covered. Students are expected to search recent medical publications and generate discussion in an attempt to resolve controversial issues pertaining to best practice. A minimum grade of B is required to progress.
Prerequisites: Take PR 500, PR 502, PA 535, PR 508, PR 516.
Offered: Every year, Spring

PR 510. Surgical Techniques. 2 Credits.
This course examines the cardiothoracic surgical procedures that require extracorporeal circulatory support. Students develop an understanding of the techniques used in numerous open-heart procedures performed on adults and children. Special application of extracorporeal circulation in rare surgical procedures is included. Students are required to view a number of these procedures in the operating rooms of affiliated institutions to increase their understanding of the skills required to perform these operations. A minimum grade of B is required to progress.
Prerequisites: Take PR 500, PR 502, PA 535, PR 508, PR 516.
Offered: Every year, Spring

PR 512. Pediatric Perfusion. 4 Credits.
This course presents a study of the embryological formation of the cardiopulmonary system, a description of congenital cardiopulmonary anomalies and the application of perfusion techniques during corrective surgical procedures. Students work both independently and in groups to evaluate the results of clinical studies that contribute to current thinking and practice in the specialized area of pediatric perfusion. A minimum grade of B is required to progress.
Prerequisites: Take PR 500, PR 502, PA 535, PR 508, PR 516.
Offered: Every year, Spring

PR 514. Special Topics in Cardiovascular Perfusion. 2 Credits.
This course explores less common and newly introduced procedures for perfusionists, including the use of investigational drugs that modify the biochemical impact of adult and infant extracorporeal membrane oxygenation, extracorporeal carbon dioxide removal, total artificial hearts and newly introduced ventricular assist devices. Old standards of practice are reexamined in the light of new evidence. A minimum grade of B is required to progress.
Prerequisites: Take PR 503, PR 506, PR 509, PR 510, PR 512.
Offered: Every year, Spring

PR 516. Physiologic Monitoring. 4 Credits.
This course covers monitoring of the physiological impact of extracorporeal circulation, administration of drugs, blood products and anesthetic agents on the patient undergoing surgery requiring cardiopulmonary bypass. Monitoring of intravascular arterial and venous pressures in the systemic and pulmonary circulations, cardiac output measurement are covered. An emphasis is placed on 12-lead electrocardiogram, blood anticoagulation measurement, analysis and interpretation of arterial and venous blood gases, fluid and electrolyte balance and cerebral oxygen saturation. After mastering the basic concepts of each section, students work through case-study scenarios to apply theory to practice. Electronic simulators are used. A minimum grade of B is required to progress.
Offered: Every year, Fall

PR 520. Research Methods in Cardiovascular Perfusion. 2 Credits.
This course explores ethical issues in medical research, provides an overview of grant proposal writing and includes development of a research project, data collection and analysis using statistical programs for computers. Students develop a presentation and employ various computer presentation techniques to present student project data. Students work individually on the project and require the approval of the instructor to pursue a particular topic. A minimum grade of B is required to progress.
Prerequisites: Take PR 503, PR 506, PR 509, PR 510, PR 528.
Offered: Every year, Summer

PR 522. Research Methods in CV Perfusion II. 2 Credits.
This course is a continuation of PR 520. It provides the perfusion student with an introduction to current areas of research being conducted in the open-heart field, scientific principles of experimental design and analysis and methods of reporting results to the scientific community. This course enables students to complete the collection/analysis of data that was begun in PR 520, prepare the final written report and present the results of the research project to the perfusion community. A minimum grade of B is required to progress.
Prerequisites: Take PR 520.
Offered: Every year, Fall

PR 526. Mechanical Circulatory Support. 4 Credits.
This course will expose students in the Cardiovascular Perfusion Program to mechanical circulatory support devices such as ventricular assist devices (short and long term implantation), newborn, pediatric and adult extracorporeal membrane oxygenation (ECMO) including techniques of support using veno-veno, and veno-arterial extracorporeal life support. Students will learn both the theory and application of these life support techniques.
Prerequisites: Take PR 500 PR 508 PR 516.
Offered: Every year, Spring

PR 528. Congenital Defects and Clinical Practice. 2 Credits.
This course is a study of the management of cardiopulmonary bypass in neonates, infants and children. The course includes a description of the embryological development of the human fetus, focusing on the development of the cardiovascular system. The pathophysiology of congenital heart disease and the surgical techniques for repair of those lesions are presented, stressing both physiologic considerations for the perfusion of the neonatal and pediatric patient as well as related specific perfusion techniques.
Prerequisites: Take PR 500 PR 502 PR 516.
Offered: Every year, Spring

PR 600. Clinical Practicum I. 5 Credits.
This course provides experience in the areas of heart-lung bypass for adult, pediatric and infants, including long-term supportive extracorporeal circulation, adjunctive techniques and patient monitoring. Students focus on hypothermia, pulsatile devices, and monitor hemodynamics, blood gases, bubble detection, level sensing, temperature, electrophysiology, coagulation potential and fluid electrolytes. Special applications also are covered. Students must successfully complete a sufficient variety and number of perfusions to satisfy recommendations of the American Board of Cardiovascular Perfusion. Students meet as a group every six weeks, and individually present a patient case study at grand rounds. A minimum grade of B is required to pass.
Prerequisites: Take PR 503, PR 506, PR 509, PR 510,PR 528.
Offered: Every year, Summer
PR 602. Clinical Practicum II. 5 Credits.
This course provides experience in the areas of heart-lung bypass for adult, pediatric and infants, including long-term supportive extracorporeal circulation, adjunctive techniques and patient monitoring. Students focus on hypothermia, pulsatile devices and monitor hemodynamics, blood gases, bubble detection, level sensing, temperature, electrophysiology, coagulation potential and fluid electrolytes. Special applications also are covered. Students must successfully complete a sufficient variety and number of perfusions to satisfy recommendations of the American Board of Cardiovascular Perfusion. Students meet as a group every six weeks, and individually present a patient case study at grand rounds. A minimum grade of B is required to progress.
Prerequisites: Take PR 600.
Offered: Every year, Fall

PR 604. Clinical Practicum III. 5 Credits.
This course provides experience in the areas of heart-lung bypass for adult, pediatric and infants, including long-term supportive extracorporeal circulation, adjunctive techniques and patient monitoring. Students focus on hypothermia, pulsatile perfusion devices and monitor hemodynamics, blood gases, bubble detection, level sensing, temperature, electrophysiology, coagulation potential and fluid electrolytes. Special applications also are covered. Students must successfully complete a sufficient variety and number of perfusions to satisfy recommendations of the American Board of Cardiovascular Perfusion. A final comprehensive exam covering all aspects of the program and clinical practice is taken at the end of this course. A successful performance on the examination is required to complete the program. A minimum grade of B is required to progress.
Prerequisites: Take PR 602.
Offered: Every year, Spring

Physician Assistant (PY)

PY 501. Human Physiology. 4 Credits.
This course takes a system approach to the physiologic and biochemical functions of the human body, including relevant anatomical correlations. Laboratory sessions emphasize clinical application to systemic function.
Offered: Every year, Summer

PY 501L. Physiology Lab. 0 Credits.
Lab to accompany PY 501. (3 lab hrs.)
Offered: Every year, Summer

PY 503. Principles of Interviewing. 3 Credits.
This course explores the various methods of approaching and interviewing patients focusing on the establishment of a relationship, effects of cultural backgrounds, gender and age on giving and receiving of information in order to obtain an accurate medical history.
Offered: Every year, Summer

PY 504. History, Roles and Responsibilities of the PA. 1 Credit.
This course explores through lecture and discussion the factors affecting the development of the profession and role socialization with emphasis on standards of quality assurance, credentialing of continued competence, policies and regulations governing clinical responsibilities and dynamics of membership on a health care team.
Offered: Every year, Spring

PY 505. Clinical Pharmacology I. 2 Credits.
This distance education course covers the classification, mechanism of action, toxicity and clinical use of therapeutics agents. Side effects, indications, dose response and management of therapeutics are emphasized.
Offered: Every year, Fall

PY 506. Principles of Internal Medicine. 6 Credits.
This course takes an organ system approach to disease emphasizing the pathogenesis, clinical presentation, differential diagnosis, diagnostic and therapeutic approach to disease processes. Laboratory sessions focus on clinical problem solving through the use of real cases.
Corequisites: Take PY 520L.
Offered: Every year, Fall

PY 506L. Clinical Correlation Lab. 0 Credits.
Lab to accompany PY 506. (1 lab hr.)
Offered: Every year, Fall

PY 507. Principles of Electrocardiography. 1 Credit.
This course offers a directed approach to understanding the principles of electrocardiography and its applications to clinical practice. Throughout this course, general principles of the etiologies of abnormal EKG patterns, the differential diagnosis and clinical management are discussed to correlate the EKG with clinical situations.
Offered: Every year, Summer

PY 507L. EKG Lab. 0 Credits.
Lab to accompany PY 507. (1 lab hr.)
Offered: Every year, Summer

PY 508. Diagnostic Methods I. 2 Credits.
Clinical laboratory medicine is examined with emphasis on indications for tests, normal values, interpretation of results and correlation with clinical conditions. Laboratory sessions provide students with practical experience performing basic laboratory tests.
Offered: Every year, Summer

PY 508L. Diagnostic Methods Lab. 0 Credits.
Lab to accompany PY 508. (2 lab hrs.)
Offered: Every year, Summer

PY 509. Principles of Obstetrics and Gynecology. 3 Credits.
Anatomy and physiology of the human reproductive system are examined, including the changes in pregnancy, prenatal care, medical and surgical complications of pregnancy, pre- and postpartum care. Common gynecologic conditions, methods and effectiveness of contraception, cancer detection methods and the diagnosis and treatment of sexually transmitted infections in the female are explored.
Offered: Every year, Spring

PY 510. Principles of Pediatrics. 3 Credits.
This course examines the physical and psychological fundamentals of normal growth and development. Focus is on the major pediatric illnesses and conditions, their signs, symptoms and treatment. Immunization schedules, the various medications used in the pediatric population, their doses and indication are examined; the management of pediatric emergencies such as acute cardiac and respiratory arrest, anaphylaxis, seizures and trauma also are explored.
Offered: Every year, Spring
PY 511. Principles of Surgery and Emergency Medicine. 4 Credits.
The fundamentals of surgical disease are explored with discussions on
the etiology, pathophysiology, clinical manifestations and appropriate
management of major and minor surgical conditions and care of
the acutely injured and critically ill patient. Topics are discussed
with emphasis on clinical presentation and pre- and post-operative
management. The course introduces the principles of life support
technique and the initial management of acute medical and traumatic
conditions. Laboratory sessions are used to familiarize the student with
aseptic technique and basic surgical procedures such as airway control,
various catheter placements, surgical bleeding control and wound
management.
Offered: Every year, Spring

PY 511L. Clinical Skill Lab. 0 Credits.
Lab to accompany PY 511. (2 lab hrs.)
Offered: Every year, Spring

PY 512. Psychosocial Issues in Health Care. 2 Credits.
This course explores how cultural belief systems and values in a
multicultural society relate to the provision of appropriate health care/
counseling. Students become familiarized with the biological and
psychological attributes contributing to sexual expression as well as
societal values that shape perception and expression. Factors associated
with communicating with and caring for individuals from different
cultures, opposite genders or differing sexual preference are explored.
Lab sessions help students gain experience and develop confidence in
approaching patients through preclinical clerkships. Students improve
their clinical skills in the areas of eliciting a history, performing a physical
exam, presenting an oral report and medical documentation via the
patient chart note.
Offered: Every year, Spring

PY 512L. Psychosocial Issues Lab. 0 Credits.
Lab to accompany PY 512. (2 lab hrs.)
Offered: Every year, Spring

PY 513. Behavioral Medicine. 3 Credits.
This one-semester course gives students an overview of some of the
most important areas in behavioral psychiatry. The course includes
an overview of basic psychiatric concepts and focuses on assessing
patients who manifest psychological symptoms. Topics include
diagnosis and treatment of anxiety disorders, mood disorders, common
child and adolescent disorders, somatoform and factitious disorders,
psychotic disorders, sleep disorders, adjustment and personality
disorders, drug and alcohol abuse, and addresses forensic issues in
behavioral health.
Offered: Every year, Spring

PY 514. Diagnostic Methods II. 1 Credit.
This course covers the basic principles of radiologic and imaging
techniques, indication for various tests and recognition of abnormal
findings.
Offered: Every year, Fall

PY 515. Clinical Pathology. 3 Credits.
Basic human pathology is examined from a systemic and cellular level,
pathogenesis and various disease states. Topics include histology,
inflammation and repair, endocrine, cardiovascular, pulmonary,
musculoskeletal, GI and GU pathology.
Offered: Every year, Summer

PY 516. Clinical Pharmacology II. 2 Credits.
This continuation of Clinical Pharmacology I emphasizes commonly
prescribed therapeutic agents.
Offered: Every year, Spring

PY 518. Physical Diagnosis. 3 Credits.
This lecture course presents the techniques for performing a complete
and competent physical examination with an understanding of the
pathophysiology presented by the patient. Along with the comprehensive
complete physical examination, students learn the problem-oriented
physical examination as well as special examination tools and
techniques. Synthesis of historical and physical presentations for an
accurate evaluation of the patient are emphasized.
Prerequisites: Take PY 503.
Corequisites: Take PY 518L.
Offered: Every year, Fall

PY 518L. Physical Diagnosis Lab. 1 Credit.
This laboratory/pre-clinical clerkship course presents and explores
the techniques for performing a complete and competent physical
examination and organizing and reporting the findings in both written
and oral format. The pre-clinical clerkships allow the student to gain
experience and develop confidence in approaching patients prior to
entering the clinical year. Instructional techniques include small group
discussion, practical experience with other students and patients, and
the observation and critique of physical examination, write-ups and oral
presentations.
Prerequisites: Take PY 503.
Corequisites: Take PY 518.
Offered: Every year, Fall

PY 519. Human Anatomy. 3 Credits.
This lecture experience is meant to provide an environment for learning
gross morphology of the human body including structural relationships,
anatomical variations and clinical application. Approach to the material
is both regional and systemic. Content includes the basic concepts of
embryology, the comparison of normal and abnormal structural
relationships and demonstration of how these things relate to health and
disease. To meet the instructional goals and objectives, students attend
lectures and review online reusable learning modules while making
connections to concepts encountered in PY 519L.
Offered: Every year, Summer

PY 519L. Human Anatomy Lab. 1 Credit.
This lab experience is meant to provide an environment for learning
gross morphology of the human body including structural relationships,
anatomical variations and clinical application. Approach to the material
is both regional and systemic. To meet the instructional goals and
objectives, students complete full cadaveric dissections and a self-study
osteology review.
Corequisites: Take PY 519.
Offered: Every year, Summer

PY 520. Clinical Decision Making. 1 Credit.
The purpose of this course is to reinforce materials taught in Principles
of Internal Medicine and to provide clinical correlations by working
through a case scenario, in either a simulation or seminar setting.
Students develop critical thinking skills by working through a history,
physical exam, laboratory tests and diagnostic studies, and developing
a differential diagnosis for each case, which leads to a diagnosis so that
the student can formulate a treatment plan.
Prerequisites: Take PY 501, PY 519, PY 519L.
Corequisites: Take PY 506.
Offered: Every year, Fall
PY 526. Principles of Epidemiology.  3 Credits.
This graduate-level course in epidemiology directs itself toward application of epidemiological principles. The course involves analysis of prospective and retrospective studies, cross-sectional studies and experimental epidemiology. Both communicable and chronic disease case studies are used, as well as case studies of occupationally induced diseases.
Offered: Every year, Summer

PY 536. Biostatistics.  3 Credits.
This course covers the application of statistical techniques to the biological and health sciences. Emphasis is on mathematical models, collection and reduction of data, probabilistic models estimation and hypothesis testing, regression and correlation, experimental designs and non-parametric methods.
Offered: Every year, Summer

PY 548. Ethics in Health Care Delivery I.  2 Credits.
This course provides an overview of the discipline of Medical Ethics presenting the study and application of relevant principles, insights and understandings of modern medical practice. The course includes a study of ethical theories, which lay the foundation for subsequent investigation into specific ethical problems found in medical science and technology. A framework of ethical decision making is introduced and practiced using realistic medical cases. The purpose of the course is to provide a framework that enables the student to reason clearly and effectively about the ethics involved in medical science and technology. This course better prepares students to identify ethical issues they may encounter during the clinical year and provides a method for ethical decision making when faced with these issues. The course assumes no prior knowledge of philosophical ethics or medical science.
Offered: Every year, Summer

PY 572. Medical Microbiology and Infectious Diseases.  3 Credits.
This detailed study of microorganisms and the diseases they cause in man includes consideration of infectious disease microorganisms including their biochemical, serological and virulence characteristics, and clinical manifestations. An organ system approach is used to examine the fundamentals of pathogenicity, host response, epidemiological aspects of infectious disease, as well as clinical manifestations, diagnosis and treatment of infections.
Offered: Every year, Fall

PY 608. Graduate Seminar.  3 Credits.
This seminar prepares students for the specific requirements of entering professional practice. Faculty active in the profession cover such issues as malpractice coverage, licensure regulation, risk management and legal issues, and aspects of the financing of health care. Lab sessions are designed as small group seminars. Through guided discussion in these small seminar settings, students explore the current literature and thinking on the competencies for the physician assistant profession.
Offered: Every year, Summer

PY 608L. Graduate Seminar Lab.  0 Credits.
Lab to accompany PY 608. (1.5 lab hrs.)
Offered: Every year, Summer

PY 611. Clinical Residency I.  3 Credits.
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.
Offered: Every year, Summer

PY 612. Clinical Residency II.  3 Credits.
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.
Offered: Every year, Summer

PY 613. Clinical Residency III.  3 Credits.
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.
Offered: Every year, Summer

PY 614. Clinical Residency IV.  3 Credits.
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.
Offered: Every year, Fall

PY 615. Clinical Residency V.  3 Credits.
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.
Offered: Every year, Fall
PY 616. Clinical Residency VI. 3 Credits.  
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.  
Offered: Every year, Fall

PY 617. Clinical Residency VII. 3 Credits.  
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.  
Offered: Every year, Spring

PY 618. Clinical Residency VIII. 3 Credits.  
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.  
Offered: Every year, Spring

PY 619. Clinical Residency IX. 3 Credits.  
Upon successful completion of the didactic phase, the PA student undertakes an intensive course of study requiring the application of skills and concepts acquired during the earlier course work. Each student rotates through seven six-week clinical disciplines and two four-week electives at varying sites throughout Connecticut, Massachusetts and Rhode Island. The core rotations are: family medicine/primary care, internal medicine, general surgery, emergency medicine, obstetrics/gynecology, pediatrics and psychiatry. Supplemental electives include a wide variety of medical, surgical and pediatric subspecialties.  
Offered: Every year, Spring

PY 648. Ethics/Health Care Delivery II. 1 Credit.  
This 1-credit course occurs in the third summer after the student completes their clinical rotations. The course is a continuation of the PY 548 Ethics in Health Care I. The purpose of the course is to reinforce a framework of ethical decision-making which enables the student to reason clearly and effectively about the ethics involved in medical science and technology and reflect on ethical issues encountered during the clinical year. Student experiences encountered during their clinical year are used to exemplify the theoretical course material.  
Offered: Every year, Summer

PY 650. Medical Writing Workshop/Journal Club. 1 Credit.  
The purpose of the medical writing course is to educate the PA student in the interpretation of medical literature and provide experiences in the various forms of medical writing and presentations. The course begins in summer semester of the second year with lectures, modules and on-campus activities, and then spans the clinical year using distance-education resources. Learning topics progress from a basic overview of writing mechanics and proper referencing to specific types of medical articles. Success in the medical writing course is determined by the quality of the researched written clinical papers and posters.  
Offered: Every year, Summer

PY 676. Comprehensive Examination. 2 Credits.  
This comprehensive examination is a capstone of the physician assistant program. The purpose of the exam is twofold. First, to ascertain if the student has both the broad and specific knowledge expected of someone holding a master’s degree. Second, to determine whether the student has been able to integrate knowledge obtained from individual courses into unified concepts that link the students’ own specialization to other fields of study. The student is given an oral exam, a written examination and a clinical skills examination in the form of an Objective Score of Clinical Evaluation (OSCE).  
Offered: Every year, Summer

Radiologist Assistant (RA)

RA 505. Clinical Pharmacology I. 3 Credits.  
This education course covers the classification, mechanism of action, toxicity and clinical use of therapeutics agents. Side effects, indications, dose response and management of therapeutics are emphasized.  
Offered: Every year, Summer

RA 518. Imaging Pathophysiology. 3 Credits.  
The content focuses on the characteristics and manifestations of disease caused by alterations or injury to the structure or function of the body. Concepts basic to pathophysiology as well as common disease conditions are studied and serve as prototypes in understanding alterations that occur in the major body systems. Emphasis is placed on the characteristic manifestations and image correlation with these pathologies observed through diagnostic imaging. For radiologist assistant majors only.  
Offered: Every year, Fall

RA 520. Radiation Safety and Health Physics. 2 Credits.  
This course provides an understanding of the protection of individuals from the harmful effects of ionizing radiation. Content includes an overview of the regulatory bodies and patient radiation safety regulations affecting the diagnostic imaging environment. The interaction of ionizing radiation with matter, units of exposure and dose, radiation detection and measurement devices are considered. Practical techniques and QA/QC procedures for reducing patient and operator risk of exposure to ionizing radiation are discussed.  
Offered: Every year, Summer
RA 530. Image Critique and Pathologic Pattern Recognition I. 3 Credits.
Basic imaging interpretation skills are presented to differentiate normal and abnormal structures in the skeletal, respiratory and cardiovascular systems, head and soft tissue neck across the lifespan. Students develop an understanding of the correlation of anatomy, pathology and physiology as it relates to radiologic imaging and interpretation. Protocols for drafting memoranda of initial observations based on image assessment are included. Guest lectures are provided. This course also includes imaging post processing. The content is designed to establish knowledge in the fundamentals of digital image post processing that support guided skill development using clinical based imaging workstations.
Offered: Every year, Fall

RA 531. Image Critique and Pathologic Pattern Recognition II. 3 Credits.
Basic imaging interpretation skills are presented to differentiate normal and abnormal structures in breast, gastrointestinal and genitourinary systems across the lifespan. Students develop an understanding of the correlation of anatomy, pathology and physiology as it relates to radiologic imaging and interpretation. Protocols for drafting memoranda of initial observations based on image assessment are included. Guest lectures are provided. This course also includes image post processing. The content is designed to establish a knowledge of the fundamentals of digital image post processing that support guided skill development using clinical based imaging workstations.
Offered: Every year, Spring

RA 532. Interventional Procedures I. 3 Credits.
This course focuses on invasive procedures expected to be performed by the radiologist assistant. Students develop an understanding of the correlation of anatomy, pathology and physiology as it relates to radiologic imaging and interpretation with an assessment of need for interventional procedures across the lifespan. Procedures related to skeletal, respiratory and cardiovascular and head and neck systems are discussed, including but not limited to arthrograms, lumbar punctures, PICC, central venous lines, venogram, fistulograms, organ biopsies and thoracentesis. Quality improvement methods are emphasized.
Offered: Every year, Fall

RA 535. Interventional Procedures II. 3 Credits.
This course focuses on invasive procedures expected to be performed by the radiologist assistant. Students develop an understanding of the correlation of anatomy, pathology and physiology as it relates to radiologic imaging and interpretation with an assessment of need for interventional procedures. Procedures related to the breast, gastrointestinal and genitourinary systems across the lifespan are discussed, including but not limited to breast aspiration, nephrostogram, loopogram, gastric and T-tube check, organ biopsies and paracentesis. Quality improvement methods are emphasized.
Offered: Every year, Spring

RA 545. Research Methods and Design. 3 Credits.
Students explore ethical issues in medical research, develop a research project, collect data and perform analysis using statistical programs for computers. A presentation is developed and various computer presentation techniques are employed to present student project data. Students work individually on the project and require the approval of the instructor to pursue a particular topic.
Offered: Every year, Fall

RA 550. Clinical Seminar I. 1 Credit.
This distance education course requires students to present a minimum of two case studies during the academic semester. Based on the case study requirements of the radiologist assistant examination criteria, each student is responsible for patient history, clinical correlation, explanation of imaging procedures, evaluation of imaging studies and identification of pertinent anatomy. Students may choose a minimum of one modality for discussion per case study. Students are required to participate in discussions regarding each weekly case study.
Offered: Every year, Spring

RA 551. Clinical Seminar II. 1 Credit.
This distance education course requires students to present a minimum of two case studies during the academic semester. Based on the case study requirement of the radiologist assistant examination, students are responsible for patient history, clinical correlation, explanation of imaging procedures, evaluation of imaging studies and identification of pertinent anatomy.
Offered: Every year, Summer

RA 552. Clinical Seminar III. 3 Credits.
This distance education course requires students to present a minimum of two case studies during the academic semester. Based on the case study requirement of the radiologist assistant examination, students are responsible for patient history, clinical correlation, explanation of imaging procedures, evaluation of imaging studies and identification of pertinent anatomy.
Offered: Every year, Fall

RA 570. Radiologist Assistant Clinical I. 3 Credits.
This course provides students with a clinical experience over a 15-week period. Students are required to attend clinical three consecutive days per week. The areas of experience include general radiography, fluoroscopic procedures and interventional procedures. The experience also includes advanced imaging modalities such as magnetic resonance imaging, computer tomography, mammography, positron emission tomography and ultrasound. Application of skills related to patient care and management, radiographic pattern recognition and procedural variances are employed. Students must complete American Registry of Radiologic Technologists competency requirements.
Offered: Every year, Spring

RA 571. Radiologist Assistant Clinical II. 5 Credits.
This course provides students with a clinical experience over a 15-week period. Students are required to attend clinical four consecutive days per week. The areas of experience include general radiography, fluoroscopic procedures and interventional procedures. The experience also includes advanced imaging modalities such as magnetic resonance imaging, computer tomography, mammography, positron emission tomography and ultrasound. Application of skills related to patient care and management, radiographic pattern recognition and procedural variances are employed. Students must complete American Registry of Radiologic Technologists competency requirements.
Offered: Every year, Summer
RA 572. Radiologist Assistant Clinical III. 5 Credits.
This course provides students with a clinical experience over a 15-week period. Students are required to attend clinical five consecutive days per week. The areas of experience include general radiography, fluoroscopic procedures and interventional procedures. In addition, experience includes advanced imaging modalities such as magnetic resonance imaging, computer tomography, mammography, positron emission tomography and ultrasound. Application of skills related to patient care and management, radiographic pattern recognition and procedural variances are employed. Students must complete American Registry of Radiologic Technologists competency requirements.
Offered: Every year, Fall

RA 573. Radiologist Assistant Clinical IV. 5 Credits.
This course provides students with a clinical experience over a 15-week period. Students are required to attend clinical five consecutive days per week. The areas of experience include general radiography, fluoroscopic procedures and interventional procedures. In addition, experience includes advanced imaging modalities such as magnetic resonance imaging, computer tomography, mammography, positron emission tomography and ultrasound. Application of skills related to patient care and management, radiographic pattern recognition and procedural variances are employed. Students must complete American Registry of Radiologic Technologists competency requirements.
Offered: Every year, Fall

RA 590. Thesis I. 1 Credit.
The focus of this course is to further develop the paper written in RA 545. Students work on improving the abstract; introduction and literature review; developing the results, discussion, conclusion and recommendation sections of the thesis. At the conclusion of the course the student should have rough draft of a five-chapter thesis.
Offered: Every year, Spring

RA 591. Thesis II. 2 Credits.
This course is a continuation of RA 590 Thesis I. Each student produces a final five-chapter thesis and is required to present the completed thesis.
Offered: Every year, Summer

Social Work (SW)

SW 500. Generalist Field Education Practicum I. 3 Credits.
This is the first of two field placements. The generalist field placement is offered in the generalist year for 16 hours a week for a minimum of 400 hours. In addition to the hours required in the agency placement, there is a requirement to attend a Field Seminar on campus throughout the months of the placement.
Corequisites: Take SW 501.
Offered: Every year, Fall

SW 501. Social Work Practice I: Social Work Practice with Individuals and Families. 3 Credits.
This is the first semester of the generalist practice sequence. Social Work Practice I provides an introduction to social work practice. The courses present the knowledge and skills necessary for competent generalist social work practice with individuals and families. Skills taught in this course are interviewing, problem identification, problem exploration, formulating the presenting complaint, data gathering, differential assessment, planning, beginning intervention, termination, and evaluation.
Corequisites: Take SW 500. Take SW 511
Offered: Every year, Fall

SW 502. Generalist Field Education Practicum II. 3 Credits.
This is the second of two field placements. The generalist field placement is offered in the generalist year for 16 hours a week for a minimum of 400 hours. In addition to the hours required in the agency placement, there is a requirement to attend a Field Seminar on campus throughout the months of the placement.
Corequisites: Take SW 503.
Offered: Every year, Spring

SW 503. Social Work Practice II: Social Work Practice with Groups, Organizations and Communities. 3 Credits.
This is the second semester of the generalist practice sequence. Social Work Practice II provides an introduction to social work practice. The courses present the knowledge and skills necessary for competent social work practice with groups, organizations and communities. There is special attention given to vulnerable and disenfranchised populations.
Prerequisites: Take SW 501.
Corequisites: Take SW 502.
Offered: Every year, Spring

SW 504. Social Welfare and Social Policy. 3 Credits.
This course provides students with a foundation understanding and appraisal of social welfare policies and programs in the United States, and the historical and contemporary forces that have shaped their development. It covers the formation of the social work profession and its role in the creation and implementation of social policy and its tradition of advocacy, social action, and reform. Students take steps to engage in policy practice to advance social and economic justice.
Offered: Every year, Fall

SW 505. Social Work Research. 3 Credits.
The purpose of this course is to provide the generalist MSW student with a solid foundation in social work research, with an emphasis on evidence-based practice. As consumers and producers of research, social workers need to understand the core concepts of scientifically sound and rigorous research. Students become prepared to critically evaluate the research and learn to synthesize empirical research into a systematic review. The impact of bias in research is identified.
Offered: Every year, Fall

SW 507. Issues of Diversity and Oppression. 3 Credits.
This course examines the dynamics of racism and other forms of oppression in society and within us, and how those dynamics are intertwined with policy and practice. The course places oppression in the economic, political and social context of the U.S. Students analyze racism, sexism and ethnocentrism as they operate at the individual, community and institutional levels. The course aims to increase self-awareness and cultural humility for social work practice.
Offered: Every year, Fall

SW 508. Psychopathology. 3 Credits.
This course provides students with extensive knowledge of the major forms of emotional illness and their treatment. Students develop competence in diagnosis by mastering the currently accepted diagnostic code (DSM-V). They develop competence in treatment planning through awareness and understanding of the most modern and accepted treatments for each major category of mental illness.
Prerequisites: Take SW 500, SW 501.
Offered: Every year, Spring
SW 511. Human Behavior in the Social Environment I: Theories for Practice for Individuals and Families. 3 Credits.
Using a person-in-environment framework, this course provides an understanding of the major theories that explain the structures, functions, and dynamics of groups, organizations and communities. Students master core ideas of theories that provide the conceptual base for engaging in interventions that occur in the macro social environment. The course focuses on utilizing theories that promote empowerment of key stakeholders within groups, organizations and communities and that address social and economic injustice.
Offered: Every year, Fall

SW 512. Human Behavior in the Social Environment II: Theories for Groups, Organizations and Communities. 3 Credits.
Using an ecosystems framework, this course provides an understanding of the major theories that explain the structures, functions, and dynamics of groups, organizations and communities. Students master core ideas of theories that provide the conceptual base for engaging in interventions that occur in the macro social environment. The course focuses on utilizing theories that promote empowerment of key stakeholders within groups, organizations and communities and that address social and economic injustice.
Offered: Every year, Fall

SW 580. Clinical Assessment and Diagnosis. 3 Credits.
This course is designed to provide students with extensive knowledge of the major forms of emotional illness and their treatment. Students will develop competence in diagnosis by mastering the currently accepted diagnostic code (DSM-V). They will develop competence in treatment planning through awareness and understanding of the most modern and accepted treatments for each major category of mental illness. Strengths-based approaches to mental health care is emphasized.
Prerequisites: Take SW 500 SW 501
Offered: As needed

SW 600. Specialized Practice Field Education Practicum in Health/Behavioral Health I. 4 Credits.
This specialized practice field placement is the first of two field placements and offers a social work experience focused on health/behavioral health in a variety of settings. Students complete 24 hours a week for a minimum of 600 hours. In addition to the hours required in the agency placement, there is a requirement to attend a monthly Field Seminar.
Prerequisites: All generalist curriculum courses.
Corequisites: Take SW 603.
Offered: Every year, Spring

SW 602. Specialized Practice Field Education Practicum in Health/Behavioral Health II. 4 Credits.
This specialized practice field placement is the second of two field placements and offers a social work experience focused on health/behavioral health in a variety of settings. Students complete 24 hours a week for a minimum of 600 hours. In addition to the hours required in the agency placement, there is a requirement to attend a monthly Field Seminar.
Prerequisites: All generalist curriculum courses.
Corequisites: Take SW 603.
Offered: Every year, Spring

SW 603. Social Work Practice IV: Specialized Organizational Social Work Practice. 3 Credits.
This course is designed to expand students’ knowledge and understanding of human service organizations and to provide approaches for designing and managing programs. Students are exposed to various organizational and management theories and practices. In addition, emphasis is placed on organizational practice within the field of behavioral health in primary care settings.
Prerequisites: All generalist curriculum courses and SW 601.
Corequisites: Take SW 602.
Offered: Every year, Spring

SW 604. Evaluation Research Work Programs and Practice. 2 Credits.
This course focuses on the necessity of program evaluation for agency accountability and for improving services for clients. The course provides an overview of the methods of program evaluation and builds upon learned research knowledge for elaborating on the conceptual, methodological and administrative aspects of evaluation research. Students gain knowledge on how to utilize evaluation studies to inform their own practice at the micro and mezzo levels.
Prerequisites: All generalist curriculum courses.
Offered: Every year, Fall

SW 605. Integrative Seminar/Capstone Project. 2 Credits.
This course requires students to integrate core areas of generalist and specialized practice knowledge to a current issue relevant for social work practice. Students research human behavior theory, innovative evidence-based practice, policy and advocacy, as well as the latest data on health/behavioral health promotion to disseminate strategies for ameliorating the negative impact of a social problem on a specific marginalized population.
Prerequisites: All generalist curriculum courses.
Corequisites: Take SW 602, SW 603.
Offered: Every year, Spring

SW 611. Social Work in Health-Related Settings. 3 Credits.
This specialized practice MSW course focuses on the roles and functions of social workers serving clients in a rapidly changing health and behavioral health care industry. A strengths-based, family-centered and culturally sensitive approach to practice in a variety of health and behavioral health care settings is presented.
Prerequisites: All generalist curriculum courses.
Corequisites: Take SW 602.
Offered: Every other year, Spring
SW 612. Social Work Practice in Child Welfare and Behavioral Health Settings. 3 Credits.
This specialized practice social work course focuses on the characteristics, strengths and service needs of families and children in the child welfare, behavioral health and juvenile justice systems. It examines issues and builds practice skills related to those facing separation, reunification, effects of traumatic experiences, and mental health concerns.
Prerequisites: All generalist curriculum courses.
Offered: Every other year, Spring

SW 613. Social Work Practice in Schools. 3 Credits.
This specialized practice social work course presents knowledge and skills for engaging in social work practice from preschool through high school in educational settings across the continuum from direct practice, to school and district level programming and policy, to partnering with community stakeholders to advance programming and policy.
Prerequisites: All generalist curriculum courses.
Corequisites: Take SW 602, SW 603.
Offered: Every year, Spring

SW 614. Social Work Issues in Health and Illness. 3 Credits.
This course discusses the importance of cultural and socioeconomic factors in the creation of major health disparities in the United States. Physiological, psychological, social and environmental factors are considered in relationship to cultural and socioeconomic factors in explaining both etiology and consequences of disease. The framework is applied to common diseases in the life course.
Prerequisites: All generalist curriculum courses.
Offered: Every other year, Spring

SW 622. Multicultural Practice in Communities and Organizations. 3 Credits.
This specialized elective course provides students with an understanding of multicultural practice in organizational and community settings. Students examine concepts and techniques of multicultural practice; consider and evaluate relevant strategies and tactics that promote multiculturalism, including community capacity building, empowerment processes, intercultural communication, diversity training and cross-cultural supervision, and apply them to both community organizing and community-based agency practice settings.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall and Spring

SW 623. Child and Family Social Services Policy. 3 Credits.
This specialized practice MSW course provides a perspective on public and private sector social policies and service programs for children and families. The course includes topics related to policy objectives; history and values underpinning services; administration, economics, and funding of services; politics, interest group activities, and evaluation of policy and programs. The course builds on the evaluative concepts of social policy analysis included in the generalist policy course.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall and Spring

SW 624. Rape Crisis Victim Advocacy. 3 Credits.
This class prepares students to be certified to be rape crisis victim advocates and peer educators. The class is centered on the victim’s perspective on sexual assault, sexual abuse, as well educating others about helping rape survivors. The course will cover basic information about sexual violence and rape myths, the protocol for reporting rape in different venues (e.g., on campus, police, hospital, rape crisis center), and methods for assisting survivors.
Offered: As needed

SW 630. Clinical Social Work with Military Service Members and Families. 3 Credits.
This specialized clinical elective provides conceptual theories of best practice approaches with, and research findings on working with service members and their families, with a primary focus on service members who have served in combat. Topics covered include strengths-based assessment and core evidence-based treatment interventions, and prevention strategies for working with service members and their families. The impact of working with traumatized individuals and families on social workers is reviewed with recommendations for self-care.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Spring and Summer

SW 633. Clinical Social Work Practice and Stress Management Techniques. 3 Credits.
The psychological, physiological and sociocultural aspects of stress are taught in this specialized clinical practice course. Stress management techniques are explored didactically and experientially. The purpose of this course is to teach students to understand the cognitive, affective and neurobiological impact of stress. Specific interventions to address traumatic stress also are discussed.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall

SW 634. Clinical Social Work with Substance Abuse and Addictive Behaviors. 3 Credits.
This course teaches the specialized practice social work student the theories and concepts of addiction. Students learn about the current research and approaches to counseling the chemically dependent client and/or family member, as well as the role of relevant systems, and how the addictive behavior affects these systems. The course emphasizes the application of social work values and ethics in the delivery of addiction services.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall

SW 635. Clinical Social Work Evidence-Based Treatment With Children and Adolescents. 3 Credits.
This specialized elective course provides students with a framework for understanding evidence-based mental health treatment with children and adolescents. Students become familiar with the most commonly used EBTs in the field and gain an understanding of the obstacles inherent in moving clinical practice from research to real-world settings. Models presented cover a range of diagnoses with an emphasis on children who have experienced emotional trauma. Individual, family and group treatment are addressed.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall

SW 636. Clinical Social Work in Relation To Death, Dying, Bereavement and Life-Threatening Illness. 3 Credits.
This specialized elective course provides a framework of knowledge, skills and values for culturally competent and responsive social work practice in helping clients who confront the issues of death and dying and life-threatening illnesses. A comparative, critically reflective approach to content is employed. Students explore experiences of clients dealing with these issues in relation to diversity of ethnicity or culture, age, gender, sexual orientation and social class.
Prerequisites: All generalist curriculum courses.
Offered: As needed, Fall
SW 640. Clinical Social Work Practice with Adult Trauma. 3 Credits.
This specialized clinical elective focuses on the conceptual theories of trauma from cognitive/behavioral, psychodynamic and attachment theory perspectives. Emphasis is on the role of gender, race, ethnicity and culture in individuals’ responses to trauma. Students apply diagnoses, assessment, psycho-education, stress management, affect regulation and emotional processing as core treatment components. The course includes application to selected groups, including adult survivors of complex PTSD such as sexual abuse, combat trauma and survivors of acute incident trauma.
**Prerequisites:** All generalist curriculum courses.
**Offered:** As needed, Spring

SW 698. Community-Based Service Learning Semina. 3 Credits.

SW 699. Special Topics in Social Work. 3 Credits.
This course is offered to present a topic that is not part of the current course listings. It meets the curriculum standards of the MSW program for elective credit only.
**Offered:** As needed