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Anatomy

Courses

ANAT 501S Neurobiology Topics I 2.0 Credits

Neurobiology topics is a "journal club" course required of all Neuroscience graduate students beginning in the second year. Students, faculty and staff from Neuroscience and other programs are also encouraged to attend as registered or non-registered participants. The course is offered in the Fall and Spring semesters. Students choose topics of interest and a faculty member conducting research in this field is invited to introduce the topic, either from Drexel University or another local university. Students then present research papers in this area to the class to refine their presentation skills, practice critical thinking, and learn about recent research. Recent topics chosen by the class have included: Analysis of Somatosensory Systems, Neuroimmunology, Neurodegenerative Diseases, and Axon Guidance.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

ANAT 8112S Anatomy*** 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ANAT 8113S ANATOMY - 3 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ANAT 8114S ANATOMY 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT 9094S ELECTIVE - ANATOMY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT 9752S Research - Anatomy*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT 9754S RESEARCH - ANATOMY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT 9756S RESEARCH - ANATOMY -6WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT 9758S Research-Anatomy-8wks 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANAT T580S Special Topics in Anatomy 0.0-12.0 Credits**

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit**ANAT T680S Special Topics in Anatomy 0.0-12.0 Credits**

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit

Anesthesiology

Courses

ANES 8210S SR. SUB. IN ANESTHESIOLOGY 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**ANES 8211S CLINICAL ANESTHESIOLOGY - 1WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8212S Clinical Anesthesiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8213S CLINICAL ANESTHESIOLOGY - 3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8214S ANESTHESIOLOGY SUBINTERNSHIP 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8218S Sr. Subinternship in Anes 8-wk 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8312S Acute/Chronic Pain MGMT*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**ANES 8314S Acute/Chronic Pain Management 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 8714S Pediatric Anesthesiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 9092S ELECTIVE-ANESTHESIOLOGY, 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**ANES 9094S ELECTIVE - ANESTHESIA 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 951S ACUTE/CHRONIC PAIN MANAGEMENT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 9752S Research-Anesthesiology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**ANES 9754S Research-Anesthesiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit

Biochemistry

Courses

BIOC 502S Biochemistry 1st Lab Rotation 4.0 Credits

First rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**BIOC 503S Biochemistry 2nd Lab Rotation 4.0 Credits**

Second rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

BIOC 504S Biochemistry 3rd Lab Rotation 4.0 Credits

Third rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

BIOC 505S Biochemical Basis of Disease 2.0 Credits

This is an advanced graduate course designed to explore the biochemical basis of a variety of diverse diseases, ranging from the diabetes to Alzheimer's. The course format consists of student presentations that will be augmented by specialized lecture.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 506S Biochemistry Journal Club 1.0 Credit

A weekly journal club in which students take turns presenting recent papers from the biomedical literature.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 15 times for 100 credits

BIOC 507S Biochemistry Seminar Series 1.0 Credit

Weekly research seminars on topics in Biochemistry and Molecular Biology. Seminar speakers include both scientists from the Drexel faculty and scientists from outside institutions.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 15 times for 100 credits

BIOC 508S Experimental Approaches to Biochemical Problems 3.0 Credits

This course provides the student with a thorough understanding of the principles underlying the experimental techniques currently used to tackle biochemical problems. A combination of lecture, discussion, investigation of the primary literature, and demonstrations will be used.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IDPT 533S [Min Grade: C]

BIOC 509S Biochemical Basis of Disease 3.0 Credits

This is an advanced graduate course designed to explore the biochemical basis of a variety of diverse diseases, ranging from the Acquired Immunodeficiency Syndrome (AIDS) to Alzheimer's. The course format consists of specialized lectures that are augmented by student presentation. This course is open to all grad students. May be repeated once for credit.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 3 credits

BIOC 511S Communication for Researchers 2.0 Credits

This is a course designed to introduce graduate students to the basics of scientific writing. The course will involve both the discussion of reading assignments and writing assignments for the students, which will be discussed and critiqued in class.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 513S Biotechnology Practicum I 4.0 Credits

The Biotechnology practicum is designed to provide hands-on experience with the techniques encountered in didactic courses and the Biochemistry seminar series. Laboratories for the practicum will be chosen taking into consideration the interests and career goals of the students. The student will carry out directed research in the lab of a faculty member with expertise in the techniques employed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 514S Biotechnology Practicum II 4.0 Credits

The Biotechnology practicum is designed to provide hands-on experience with the techniques encountered in didactic courses and the Biochemistry seminar series. Laboratories for the practicum will be chosen taking into consideration the interests and career goals of the student. The student will carry out directed research in the lab of a faculty member with expertise in the techniques employed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 515S Biotechnology Practicum III 8.0 Credits

The Biotechnology practicum is designed to provide hands-on experience with the techniques encountered in didactic courses and the Biochemistry seminar series. Laboratories for the practicum will be chosen taking into consideration the interests and career goals of the student. The student will carry out directed research in the lab of a faculty member with expertise in the techniques employed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 516S Biotechnology Practicum IV 4.0 Credits

The Biotechnology practicum is designed to provide hands-on experience with the techniques encountered in didactic courses and the Biochemistry seminar series. Laboratories for the practicum will be chosen taking into consideration the interests and career goals of the student. The student will carry out directed research in the lab of a faculty member with expertise in the techniques employed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 520S Macromolecular Structure & Function 3.0 Credits

This course is designed to introduce the student to current research topics and latest developments in the area of the structure and function of various types of macromolecules. Topics may include enzyme mutagenesis, protein folding, structure based drug design and structural aspects of receptors, transcription factors and ion channels. Topics may vary in different years.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 521S Introduction to Biochemical Data 2.0 Credits

Modern biochemistry is defined by quantitative analysis of diverse data. While familiarity with tools for data analysis are essential for the modern biochemist, students often have difficulty dealing with numeric information and data tasks when they first encounter them in their own research. In some cases, students need skills that are either never taught formally or are presented only in an abstract sense. This course remedies this by introducing students to common data handling and analysis tasks from biochemistry and related disciplines, in a hands-on and problem-oriented small-group environment.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 522S Biochemistry of Drug Discovery & Design 4.0 Credits

This course will provide in-depth coverage of the preclinical drug discovery and design process, with a special emphasis on the key role of biochemistry at each stage. Biochemical knowledge and skills are required from the early identification of a therapeutic target and hit compounds, through hit-to-lead optimization, to establishing preclinical "absorption, distribution, metabolism, excretion and toxicity" profiles (ADMET) for lead compounds. Discussion of emerging areas in therapeutic design and case studies, both from literature and on-going research programs, will be included to give context to the lecture series. Due to the dynamic nature of many of the aspects of drug discovery, this course will be regularly updated to reflect new trends and technologies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 600S Biochemistry Thesis Research 9.0 Credits

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department. Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 15 times for 100 credits

BIOC 603S Advanced Topics in Biochemistry and Molecular Biology 1.5 Credit

This course will supplement basic information taught in the biomedical sciences first year graduate core curriculum and provide a comprehensive, in-depth analysis of various topics in biochemistry. The course will include a mixture of lectures and literature-based assignments. Lectures are intended to cover topics deemed important for Biochemistry and MCBG students, but which are not covered in depth in the core curriculum. This will include practical aspects of experimental design and execution.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC 9750S RESEARCH-BIOCHEMISTRY-16 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

BIOC 9752S RESEARCH-BIOCHEMISTRY - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

BIOC 9754S RESEARCH-BIOCHEMISTRY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

BIOC 9756S RESEARCH - BIOCHEMISTRY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

BIOC 9758S RESEARCH-BIOCHEMISTRY- 8WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

BIOC T580S Special Topics in Biochemistry 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

BIOC T680S Special Topics in Biochemistry 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Cancer Biology

Courses

CBIO 500S Core Cancer Topics 2.0 Credits

The overall goal of Cancer Topics is to provide the student with exposure to cancer topics as they relate to topics covered in the core curriculum. In addition, students will get exposure to cancer-related topics not covered in other required courses.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO 501S Infection, Inflammation and Cancer 2.0 Credits

This course will be an advanced-level comprehensive survey of infectious agents and inflammatory signals that have been linked to the development of various cancers. The molecular mechanisms that underlie viral, bacterial, and parasite associated human cancers as well as inflammation-mediated cell transformation mechanisms will be the focus of lectures and discussions. Sessions will consist of lectures and discussions of assigned reading.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: BIOC 510S [Min Grade: B]

CBIO 503S Cancer Biology Journal Club 1.0 Credit

The overall goal of the cancer journal club is to provide the student with exposure to primary literature of latest high impact research related to cancer research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 4 times for 4 credits

CBIO 504S Cancer Biology 1st Lab Rotation 4.0 Credits

First rotation. Guided research is conducted on a part-time basis for 8-10 week period. Student will choose from a list of labs conducting cancer related research; the focus will be on acquisition of specific laboratory/molecular biology skills in cancer-related research. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO 505S Cancer Biology 2nd Lab Rotation 4.0 Credits

Second rotation. Guided research is conducted on a part-time basis for 8-10 week period. Student will choose from a list of labs conducting cancer related research; the focus will be on acquisition of specific laboratory/molecular biology skills in cancer-related research. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO 506S Cancer Biology Thesis Research 9.0 Credits

Research toward the fulfillment of the masters thesis. Process is monitored by the student's advisor and department, advisory committee or thesis committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 8 times for 18 credits

CBIO 508S Cancer Biomarkers and Therapeutics 2.0 Credits

In this advanced course, students will learn about biomarkers and therapies for human cancers. A topic by topic analysis of key developments and approaches in biomarker discovery and validation along with cancer therapy are presented, with inclusion of pharmacologic, regulatory and basic science perspectives.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO 510S Cancer Biology 3.0 Credits

This upper level graduate course is a team-taught lecture-based course on the biology of cancer including: transformation, oncogenes and suppressor genes, cell cycle, DNA damage/repair, cell signaling, oncogenesis, metastasis, and cancer therapies. Faculty from Fox Chase Cancer Center and the Wistar Institute will participate in the teaching. The purpose of the course is to provide a comprehensive understanding of the principles of cancer biology. It has been designed to introduce students to the advanced concepts of cancer biology and latest conceptual, technical and therapeutic advances. The emphasis in this course is to convey the history and fundamentals of the topics to prepare students for CBIO 512S. This course is intended for second year graduate students interested in basic cancer research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO 512S Advanced Cancer Biology 2.0 Credits

The goal of this course is to provide an in-depth understanding of current cancer biology research. This course is designed to introduce students to the advanced concepts of cancer biology and latest conceptual, technical and therapeutic advances. Students will become familiar with the latest research in many topics related to cancer biology, including cancer stem cells, cancer metabolism and cancer microenvironment, as well as with the basic cancer bioinformatics tools. Students will get first-hand experience in hypothesis development based on current cancer research findings and propose aims to test hypothesis. This course is intended for 2nd year graduate students. CBIO 510S is a prerequisite since a basic understanding of cancer biology will be needed. The prerequisite can be waived by Course Director.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: CBIO 512S [Min Grade: B]

CBIO I599S Independent Study in Cancer Biology 1.0-9.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CBIO T580S Special Topics in Cancer Biology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Cardiothoracic Surgery

Courses

CTSU 8112S Cardiac Surgery* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CTSU 8114S CARDIAC SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CTSU 8124S Cardiothoracic Surgery 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CTSU 8134S GENERAL THORACIC SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CTSU 8144S Cardiothoracic ICU 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**CTSU 8213S CARDIOTHORACIC- SURGERY 3 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CTSU 8214S Cardiothoracic Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CTSU 9094S ELECTIVE - CARDIOTHORACIC SURG 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CTSU 9754S RESEARCH-CARDIOTHORACIC SURG. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits

Clinical Research

Courses

CR 500S Epidemiology 3.0 Credits

Epidemiology is at the core of research professions as it is the study of the distribution, determinants, and the course of health related events in populations, and the efficacy and effectiveness of prevention and intervention strategies.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 501S Emerging Trends in Medical Device Regulation 3.0 Credits**

The Internet of Things poses an evolving set of challenges to the research and development of both conventional and digital medical devices. For example, equipment once found only in hospitals and doctors' offices are increasingly available to the public. This course examines the social, regulatory and scientific factors that define the development of digital and conventional medical devices even as the distinctions between patient and consumer disappear.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 505S Ethical Issues in Research 3.0 Credits**

Students explore ethical issues to sound clinical research, review the foundations of regulations for clinical investigations, and to better understand the operational imperatives of Good Clinical Practices.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 508S Medical Device Combination Product Regulation 3.0 Credits**

This course provides a comprehensive overview of medical device and combination product (drug-device, drug-biologic) regulation. The primary focus will be how medical devices and combination products are regulated by the U.S. Food and Drug Administration (FDA). Topics that will be covered include: (1) FDA's organizational structure, responsibilities, and resources for medical device and combination product regulation; (2) an overview of the laws, regulations, and regulatory processes that govern medical devices and combination products; (3) regulatory and administrative requirements for medical devices throughout the full product life-cycle, including premarket review, postmarket requirements, and enforcement programs.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 510S Sponsored Projects Finance 3.0 Credits**

The study of managing and monitoring external funding sources for research projects. Topics include: rules and regulations, proposal preparation and submission, cost accounting standards, salaries and benefits of staff, direct and indirect costs, the costing of equipment and facility use.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 511S The History of Misconduct in Biomedical Research 3.0 Credits****College/Department:** COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 512S Fundamentals of Academic Research Administration 3.0 Credits****College/Department:** COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**CR 513S Business Processes and Contemporary Concerns in Pharmaceutical R & D 3.0 Credits**

Bringing a new compound or device through a successful product launch in the bio-pharma or device industry is hugely expensive. Failures occur when information and business processes are inadequately used or inappropriately applied. This course will provide an overview of the processes most critical to launch from both clinical and business perspectives. Students will understand the R and D process as if they were participating in development and launch of new compounds, devices (including diagnostics), and biosimilars.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

CR 514S World Wide Regulatory Submissions 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 515S Intro to Clinical Trials 3.0 Credits

This course introduces regulatory responsibilities of clinical investigators, sponsors, monitors, IRBs, FDA -all those parties intimately involved in clinical research. Information and exercises are designed to reinforce the elements of Good Clinical Practices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 518S Clinical Trial Budgeting 3.0 Credits

The overall cost of drug development has increasingly become a controversial subject with estimates varying from hundreds of million to over a billion dollars. One of the larger components contributing to this is the cost of clinical trials required for regulatory approval. Accuracy in the development of clinical trial budgets is crucial for both small and large pharmaceutical companies. The budget variance for clinical studies, from forecast to actual costs, averages about 10%. Overestimating the cost of clinical studies is equally problematic and results in wasted resources and a higher opportunity cost.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 520S Applications of Clinical Research Biostatistics 3.0 Credits

Examines role of the statistician in clinical research. Course includes a discussion of the language of statistics to facilitate communication with the clinical research project team, basic methods of describing data, fundamentals of probability, simple models and methods of parameter estimation and statistical software packages for reporting data.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 523S Current Issues in Review Boards 3.0 Credits

Review boards form the basis for careful review and oversight of clinical research. This course will look in detail at the regulatory requirements of review boards as related to clinical research, as well as the roles and responsibilities of review boards and other associated topics. The differences between the areas of responsibility of review boards, the Office of Human Research Protections (OHRP), and the Office of Research Integrity (ORI), as well as data safety monitoring, subject compensation and other topics will be covered. The educational elements of this course are based upon the federal regulations, the procedures, and the practices of review boards with particular attention paid to the organization, the research review requirements and continuing review, as well as other pertinent topics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 525S Scientific Writing and Medical Literature 3.0 Credits

This course teaches the medical professional how to read for understanding and how to evaluate the validity of information found in a medical or scientific paper. The course offers students an understanding of the publishing process, how to publish an academic paper. The class explores the basics of writing a review of the medical literature. In addition, students learn how to recognize, enjoy, and employ various types of medical writing in their work.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 527S Clinical Data Management 3.0 Credits

This course will provide the student an opportunity to learn and understand the regulatory and scientific components of clinical data management. In addition, the essential documents utilized throughout the clinical data management process will be examined and incorporated into the weekly lectures. This course is vital to understanding and applying the principles and practices of clinical data management as they are applied within the prescribed federal and global regulatory framework. To any company that develops healthcare products, the lifeblood of their product line and corporate existence depends entirely on the quality of the respective clinical data that is generated.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 535S Current Federal Regulatory Issues in Biomedical Research 3.0 Credits

This course explores how the rapid pace of scientific discovery and the changing ways in which patients, researchers, policymakers and the public interact are forcing a never-ending reassessment of how to govern biomedical research. While most core principles remain in place, this course examines where and how innovation requires a new look at existing approaches.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 536S Clinical Project Management 3.0 Credits

Project management has been a well-established practice outside the pharmaceutical industry for many decades. However, with ever-increasing pressures of competitors, regulatory requirements, generic drugs and medical device innovations, its utilization is essential. It is more important than ever to use project management techniques to get products to market because, as we all know, "time is money". This course will explore a strategic approach to pharmaceutical and medical device project management.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 541S Patient Recruitment and Informed consent 3.0 Credits

Clinical trials represent the link between scientific discovery and medical effectiveness. Hundreds of innovative therapies are developed in the laboratories, but few make it past early development, if at all. Clinical trials today can cost hundreds of millions of dollars and take years to research. New clinical research starting for pharmaceuticals and medical devices is on the increase. Investigational New Drugs (IND) submissions have been growing steadily over the past several years. In order to support the increase in research, it becomes more imperative to accelerate patient recruitment and enrollment. However promising new drugs and devices may be, the research cannot move forward without enough subjects who are willing to participate and who will remain for the duration of the study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 545S Pharmaceutical Law 3.0 Credits

Presents principles and practices of the Federal Food, Drug and Cosmetic Act governing the research and development of pharmaceuticals and biologics for both humans and animals including an analysis of legal and social constructs affecting industry and the academic clinical investigator with emphasis on FDA enforcement actions.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 546S Clinical Outsourcing 3.0 Credits

This course will provide an overview of the pertinent aspects of and current issues in outsourced clinical research and development. The course will identify predominant outsourcing models and strategies, discuss how effective outsourcing relationships may be initiated and maintained through measurement and action on key operational, quality and relationship metrics, and explore perspectives on how the clinical outsourcing landscape will continue to evolve in years to come.

While concepts pertaining to procurement, quality and performance management are covered, it is not expected, nor required that students be fluent in these disciplines.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 550S Leadership Skills 3.0 Credits

This course is an in-depth analysis of specific human capital, organizational behavior and project management issues facing research facilities as they pertain to larger, integrated organizations. Selected topics include: high impact communications, negotiating, motivation and recognition.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 551S International Regulatory Affairs 3.0 Credits

Overview & analysis of the medical product regulatory processes within the world's major markets, with an emphasis on pharmaceutical requirements. The key strategies required from preclinical product development & marketing approval - post-approval of medical products in the United States, European Union, & other markets will be compared & discussed. This course will cover the salient features of international regulatory affairs; the World Health Organization & international organizations; international law General Agreement on Tariffs and Trade & Trade-Related Aspects of Intellectual Property Rights & its impact on medical products; international regulatory agencies; & product development, marketing authorization, & post-approval requirements for pharmaceuticals, biologics, medical devices, & food & cosmetics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 555S Compliance & Monitoring Issues 3.0 Credits

This course focuses on measuring and improving clinical trial performance as a means of saving time and money, while ensuring quality health care, as well as offering to patients both safe and effective therapeutic products. Students are required to develop milestone efficiencies through the use of process-performance data.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 565S Contemporary Issues in Human Research Protection 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 570S Principles and Practice of Pharmacovigilance 3.0 Credits

This course is an introduction to the ethical, clinical, and regulatory complexities of medication safety and matters thinking skills for improving the quality and effectiveness of drug safety monitoring for both the pharmaceutical industry and its impact on the public.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 571S Health Information Technology in Biomedical R&D 3.0 Credits

This course focuses on the challenges and opportunities in the development and use of health information technology in facilitating R&D and encouraging patient engagement. The course provides an overview of the regulatory requirements of information technology in support of healthcare research and biomedical product development. It includes a focus on the privacy and data security and interoperability mandates. This course also examines the dynamic environment in which medical device product research is conducted because of the use of information technology, the adoption of software applications designed for the mobile marketplace and the blurring of the distinctions between patients and consumers.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 573S Patient Generated Data in Clinical Research 3.0 Credits

This course will provide an overview of the use of patient-generated data in clinical research and development. The course will describe foundational elements for use of patient-reported data in clinical research, as well as the operational considerations for collecting patient-generated data and working with solution providers offering technology and services for the same. While we will touch upon technical concepts as part of the course material it is not expected, nor required that students be fluent in these disciplines beyond what is covered in course materials.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 600S Designing the Clinical Trial 3.0 Credits

Designers and ethical, clinical, strategic issues surrounding clinical drug research are the focus of this course. Topics include design of trials for Phases one through four, an overview of the statistical component of a clinical trial, monitoring of the trial, and managing clinical data.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: CR 515S [Min Grade: C]

CR 609S Innovative Product Development 3.0 Credits

This comprehensive course provides a solid foundation in new therapeutic product research and development for the subsequent courses in the CROM program. This course focuses on the process of drug and medical device development from early research, discovery, and product formulation, through the federal requirements for proving safety and efficacy.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 612S Fundamentals of Compliance 3.0 Credits

The study of the federal bodies and regulations that govern research. Topics include: the rules and regulations surrounding HIPAA and how it affects research on human subjects, the history and current role of the FDA, IACUC, and the IRB within the research arena.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 614S Introduction to Clinical Pharmacology 3.0 Credits

This course will provide a comprehensive overview of clinical pharmacology, pharmacokinetic/pharmacodynamic principles, and translational science as they pertain to drug development in the pharmaceutical industry. The objective of the course is to provide the student with an understanding of how clinical pharmacology principles and regulatory guidance are applied in transitioning a new molecule into human testing, as well as how product labeling for the final product is developed, based on the attributes of the drug.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CR or major is CROM.

CR 617S Informatics in Pharm Res & Development 3.0 Credits

Using a combination of printed materials, case studies, literature reviews, and on-line discussions, this course will cover past and present contributions of computer applications in pharmaceutical research and development. In addition, the student will be challenged to portend where technological advances may prove to be strategically beneficial in the future.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CR or major is CROM.

CR 620S Regulatory, Scientific and Social Issues Affecting Biotech Research 3.0 Credits

Biotechnology is among the most ambitious and controversial areas of medical research. This course delves into how FDA approaches clinical research for this wide range of products at a time when policymakers focus not only on genomics, but on personalized medicine and the use of big data, software and social policy.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 625S Health Policy and Economics 3.0 Credits

The study of the development, analysis and communication of economic data in the context of clinical research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 631S Applications of Clinical Research Biostatistics II 3.0 Credits

This course will cover in some in-depth biostatistics topics of interest in clinical trials that are not usually covered in introductory biostatistics courses. The course is designed to focus on learning and understanding biostatistics methods used in the clinical research realm of the pharmaceutical industry. Drug development is the process of finding and producing therapeutically useful pharmaceuticals and of turning them into high-quality formulations of safe and effective medicines, while delivering valuable information about their doses and dosing intervals, anticipated effects and adverse events.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: CR 520S [Min Grade: B]

CR 633S Quality Assurance Audits 3.0 Credits

This course provides the student with an in-depth knowledge of compliance and quality assurance issues as well as the related regulations inherent in the drug development process. Students develop auditing plans and strategies for conducting compliance inspections.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 635S Strategic Planning 3.0 Credits

This course introduces the student to the project management and planning process. Topics include: project communications, leadership, objectives, scope, success criteria, procurement, cost estimating, control mechanisms, developing mission statements and devising strategies that turn vision into reality. May be repeated twice for credit.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 637S Risk Management in Clinical Research 3.0 Credits

This course will provide an overview of the foundational concepts and practices of risk management and current challenges and opportunities in applying risk management and risk-based approaches in clinical research and development and as described in applicable regulatory guidance.

The course will identify pertinent tools and strategies for assessing and measuring risk, as well as defining plans for risk controls and risk response. Relevant case study examples will be presented for synthesis and illustration of concepts in practice.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR 639S Healthcare Inequities in Biomedical Research 3.0 Credits

The course examines the existence of systemic racism, sexism and other forms of bias and discrimination in the conduct of biomedical R&D that have resulted in healthcare disparities and inequities. Students will learn to identify the various forms of bias and discrimination that are and could be embedded in the way biomedical researchers create and access data used to make decisions about product development. Students also will be introduced to the history of healthcare inequities and bias in the healthcare system and in medical research to help them understand why people of color and of differing ethnicities and cultures and those in the LGBTQ+ communities harbor mistrust of the health system.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CR I699S Independent Study in Clinical Research 1.0-12.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

CR T580S Special Topics in Clinical Research 1.0-12.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

CR T680S Special Topics in Clinical Research 1.0-12.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

CR T780S Special Topics in Clinical Research 1.0-12.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

CR T880S Special Topics in Clinical Research 1.0-12.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

CR T980S Special Topics in Clinical Research 1.0-3.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Clinical Research Health Professions

Courses

CRHP 501S Research Health Professions I 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

CRHP 502S Research Health Professions II 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S]

CRHP 503S Research Health Professions III 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S] and CRHP 502S [Min Grade: S]

CRHP 504S Research Health Professions IV 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S] and CRHP 502S [Min Grade: S] and CRHP 503S [Min Grade: S]

CRHP 505S Research Health Professions V 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S] and CRHP 502S [Min Grade: S] and CRHP 503S [Min Grade: S] and CRHP 504S [Min Grade: S]

CRHP 506S Research Health Professions VI 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S] and CRHP 502S [Min Grade: S] and CRHP 503S [Min Grade: S] and CRHP 504S [Min Grade: S] and CRHP 505S [Min Grade: S]

CRHP 507S Research Health Professions VII 3.0 Credits

CRHP requires research plus a 7-10 page journal-type paper on a topic approved by the Program Director. Research may include a broad spectrum of clinical studies such as: retrospective studies; bench-top studies in conjunction or not with pharmaceutical companies; development of new clinical methodologies/techniques; or development/evaluation of new clinical devices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRHP.

Prerequisites: CRHP 501S [Min Grade: S] and CRHP 502S [Min Grade: S] and CRHP 503S [Min Grade: S] and CRHP 504S [Min Grade: S] and CRHP 505S [Min Grade: S] and CRHP 506S [Min Grade: S]

CRHP T580S Special Topics in Clinical Research for Health Professionals 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Communication & Preventative Medicine (noncredit)

Courses

CPMH 810S History of Medicine* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMH 820S Medical Terms Greek/Latin 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 821S DEATH AND DYING 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 822S HISTORY OF MEDICINE (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 824S Medicine & Art 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 832S MEDICINE AND RELIGION (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMH 833S MEDICINE AND SOCIOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 834S WOMEN IN MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 835S Medical Spanish I 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMH 836S Medical Spanish II 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMH 841S CAREGIVER/PARADIGM FOR HLTH CA 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 843S FOLK & POPULAR HLTH CARE ALT. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 844S Creative Writing for Physicians 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 845S Practice of Making Abstract Art 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 846S Contemplative Studies 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 847S Trauma & Healing 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 848S Urban Illness Experience 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 849S Women in Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 921S DEATH AND DYING 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 927S MEDICINE AND LITERATURE (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMH 933S MEDICINE AND SOCIOLOGY (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 935S MEDICAL SPANISH 1 (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 936S Medical Spanish II (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 937S MEDICAL SPANISH WKSP (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 939S Seminars in Women's Health: MSI 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 940S Seminars in Women's Health: MSII 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 941S The Healer's Art 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 942S MODES OF MEDICINE AND SCIENCE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 943S FOLK&POP HLTH CARE ALT II 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 946S MEDICINE & LAW (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 947S ETH.CONSID./NEUR-DISORDERS S/U 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 948S CREATIVE ARTS THERAPIES IN MED 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 949S Cutting Cold Flesh: Perspectives from the Humanities 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 950S ETHNICITY, CULTURE & MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMH 951S DEATH & DYING (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMH 952S MEDICINE & ART (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMH 953S HISTORY OF MEDICINE II: (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

CPMH 954S HEALTH LAW HUMANITIES (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 955S MEDICINE & FILM (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 956S HOME CARE ELECTIVE (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMH 957S MEDICINE & SPIRITUALITY (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMH 958S HISTORY OF MEDICINE-(S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMH 959S Ethics Hum Right&Glob Hlt S/U 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 960S Stress Reduc: Mind Per Prof* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMH 961S Training the Physician Eye* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

CPMH 999S Special Topics 0.0-5.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 50 credits

Communication & Preventive Medicine (credit)

Courses

CPMD 702S BIOETHICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 790S Epidemiology Journal Club* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8214S CLINICAL EPIDEMIOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMD 8216S CLINICAL EPIDEMIOLOGY - 6 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMD 8218S CLINICAL EPIDEMIOLOGY -8WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMD 821S CLINICAL EPIDEMIOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 822S RESEARCH IN MEDICAL HUMANITIES 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 824S OCCUPATIONAL & ENVIRONMENTL HL 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 825S PUBLIC HEALTH PRACTICE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 826S COMM HLTH PROMO&DISEASE PREVEN 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8314S PUBLIC HEALTH PRACTICE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8412S COMM HLTH PROMO-DIS.PREVEN 2WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMD 8414S COMM HLTH PROMO&DIS PREVENTION 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8415S COMM HLTH PROMO & DIS PREVENT. 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8514S RESEARCH IN MEDICAL HUMANITIES 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

CPMD 8614S Medical Informatics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8616S MEDICAL INFORMATICS- 6 WKS. 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8618S MEDICAL INFORMATICS- 8 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 8714S OCCUPATIONAL&ENVIRONMENTL HL 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

CPMD 895S FAMILY/COMM. MEDICINE 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMD 9094S ELECTIVE - FAMILY & COMNTY MED 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMD 9096S ELECTIVE-FAMILY&COMM MED-6WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMD 9098S ELECTIVE-FAMILY & COMM MED 8WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**CPMD 974S MEDICAL INFORMATICS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**CPMD 999S Special Topics 0.0-5.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 2 times for 12 credits

Critical Care

Courses

CRIT 8214S SURGICAL INTENSIVE CARE 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Dermatology

Courses

DERM 8111S CLINICAL DERMATOLOGY - 1 WEEK 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 8112S Clinical Dermatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 8113S CLINICAL DERMATOLOGY - 3 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 8114S Clinical Dermatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 8212S Dermatopathology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 8214S DERMATOPATHOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 858S CLINICAL DERMATOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 9092S ELECTIVE-DERMATOLOGY-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**DERM 9093S ELECTIVE-DERMATOLOGY 3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 9094S ELECTIVE - DERMATOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 9746S Research - Dermatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**DERM 9754S Research - Dermatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Drexel Pathway to Medicine

Courses

DPMS 500S Medical Science Preparation 1.0 Credit

This course is an introduction and integration of biochemistry, medical physiology, and microanatomy from the medical school curriculum. Other course objectives include the active development of time management and study skills specific for each individual student.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**DPMS 501S Critical Thinking and Scientific Communication Seminar 2.0 Credits**

This is a 2 credit course designed to introduce students to the use of biomedical literature. Students will be instructed in the use of actual and virtual library resources and search engines in order to acquaint them with the resources available to locate information relevant to their studies. Through the use of assigned readings of articles from medical journals and in-class presentations, discussions, and quizzes, students will learn how to critically evaluate the biomedical literature. The course will also provide students with the basics of scientific writing.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

DPMS 502S Accelerated Introductory Medical Biostatistics 3.0 Credits

This 3 credit web-based course is an introductory biostatistics course designed to focus on learning and applying the statistical methods most often used in clinical trials and medical field. Biostatistics has become increasingly important in the pharmaceutical and health care industry, from the process of molecule screening, clinical trials, launch of products to post-marketing data. Clinicians participating in or directing research projects will find knowledge about biostatistics indispensable. When reading articles in medical journals, health professionals must understand biostatistics in order to decide whether they can believe the results presented in the literature, how the study results apply to patient care, or how to interpret information about drugs. Biostatistics covers the development and application.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

DPMS 503S Neurobiology of Mental Illness 3.5 Credits

This course is designed to introduce students to the neurobiological mechanisms underlying mental illness. Students will learn the structure and function of the cortical and limbic circuitry responsible for processing thought and emotion. They will learn the basics of psychiatric diagnosis and discuss various treatment strategies. Students will also be exposed to strategies for how research is conducted in the field of mental illness.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

DPMS 504S Functional Neuroanatomy 4.5 Credits

This is a 4.5 credit course designed to introduce students to the neuroanatomy of the human body. It will provide extensive information regarding structure and function relationships in the central nervous system. It will also provide introductory information on neurophysiology, cellular neuroscience and systems neuroscience topics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

DPMS T580S Special Topics in Drexel Pathway to Medical School 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Emergency Medicine

Courses

EMMD 795S EM Post Year 1 Summer Research 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

EMMD 8112S Advance elective in Emergency 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8114S ADV ELECT IN EMERG MED SVCS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

EMMD 8124S Critical Care Subinternship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8132S Emergency Medicine* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8133S EMERGENCY MEDICINE - 3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8134S EMERGENCY MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8136S EMERGENCY MEDICINE- 6 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

EMMD 8144S RESUSCIT & EMERGENCY MED RESEA 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8152S Medical Toxicology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8154S Medical Toxicology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8164S EMS and Disaster Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

EMMD 8184S Emergency Medicine Simulation 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8214S EMERGENCY MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

EMMD 8252S ED Ultrasound & Toxicology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

EMMD 8254S ED Ultrasound and Toxicology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD 8262S EM Ultrasound* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

EMMD 8264S Emergency Dept Ultrasound 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated multiple times for credit

EMMD 8274S EM Point of Care Ultrasound 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated multiple times for credit

EMMD 8284S Evidence Based Emergency Med 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated multiple times for credit

EMMD 8312S EMERGENCY MEDICINE - 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

EMMD 8414S Wilderness Medicine 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 8503S EMERGENCY MED SUBINTERN-3WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 8504S Emergency Med Subinternship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 9092S ELECTIVE-EMERGENCY MED 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 9094S ELECTIVE - EMERGENCY MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 9752S RESEARCH-EMERGENCY MED 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

EMMD 9754S RESEARCH - EMERGENCY MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

Family Medicine

Courses

FAMD 8010S Family Medicine 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8015S Family Medicine Clerkship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8112S Family Medicine* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8113S FAMILY MEDICINE - 3WEEKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8114S FAMILY MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8311S PRIMARY CARE SPORTS MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8312S Sports Med for Primary Care* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8313S PRIMARY CARE SPORTS MED-3WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8314S Primary Care Sports Medicine 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8322S Geriatrics* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8324S Geriatrics 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated multiple times for credit

FAMD 847S INDIAN HEALTH SERVICE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 8612S FAMD MED/SPORTS MED - 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

FAMD 8614S Family Med/Sports Medicine 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

FAMD 8744S INDIAN HEALTH SERVICE-4WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

FAMD 8748S INDIAN HEALTH SERVICE-(8WKS) 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

FAMD 9090S FAMILY MEDICINE - ELECTIVE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

FAMD 9092S FAMILY MEDICINE - 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

FAMD 9093S FAMILY MEDICINE - 3WKS 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD 9094S Elective-Family Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD 9095S FAMILY MEDICINE - 5 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD 9096S FAMILY MEDICINE - 6 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD 9750S RESEARCH-FAMILY MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD 9752S RESEARCH - FAMILY MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**FAMD 9754S RESEARCH-FAMILY MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**FAMD 9756S RESEARCH-FAMILY MEDICINE 6WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**FAMD S642S Fertility Awareness for WH*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD S653S Principles-Aviation&Space Med 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD S664S Family Centered Maternity Care 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD S674S Maternity & Genetics in Family 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD S682S FM Sports Medicine-Virtual*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**FAMD S722S Input/Outpt Full-Scope FM*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Forensic Criminalistic Analysis

Courses

FCA 507S Gross Human Skeleton I 1.0 Credit

This course provides students with an in-depth familiarity with the gross human skeleton – its bones, their features, and how it develops. Through numerous laboratory exercises, students will be able to handle skeletal material in order to become proficient in the identification of human skeletal remains and differentiate them from those of non-human animals for application. This course focuses on the skull and dentition, whereas FCA-508 focuses on the post-cranial skeleton.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**FCA 508S Gross Human Skeleton II 0.0-3.0 Credits**

Gross human skeleton is a study of the human skeletal system: its bones, their major parts and features, and development. Through lecture and hands-on laboratory examinations of human osteological material, students learn to identify the bones of the body quickly and be able to easily discriminate between human and non-human skeletal remains whether adult or immature. This course is a direct continuation of FCA-507 (Gross Human Skelton I), and deals with the post-cranial portion of the skeleton.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Prerequisites:** FCA 507S [Min Grade: C] or MFSP 581S [Min Grade: C]

Forensic Science

Courses

MFSP 551S Human Function 3.0 Credits

This course is designed to provide students with an understanding of the functions and processes required to maintain the stable internal environment required for normal cell function. Several key themes will be examined throughout the course, including homeostasis and various feedback mechanisms. Each organ system of the body is examined from a physiological standpoint, building upon concepts illustrating how these systems are functionally integrated. This course is closely coordinated with MFSP-552S (Structure of the Human Body), to facilitate an understanding of physiology as it relates to human anatomy.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Restrictions:** Can enroll if major is CRSC or major is FS or major is IHS.

MFSP 552S Structure of the Human Body 3.0 Credits

This course is designed to provide students with a solid basis in human anatomy. The structural basis of the body's organ systems are examined and discussed – from the cellular to the tissue to the gross level. This course is closely coordinated with MFSP-551S (Human Function), enabling students who simultaneously matriculate into both to enjoy an integrated presentation of the structure and function of the human body. Anatomic complexes and key structural details of relevance to forensic science are discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRSC or major is FS or major is IHS.

MFSP 553S Human Structure Lab 1.0 Credit

The Human Structure lab enables students taking MFSP-522S (Structure of the Human Body) to examine human anatomical specimens including gross anatomical dissections and microscopic images. Structures of particular importance to the forensic professional are emphasized.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRSC or major is FS or major is IHS.

MFSP 557S Drug Chemistry 2.0 Credits

Review of the chemistry, biology and pharmacodynamic principles associated with forensic toxicology, with emphasis upon the forensic aspects of alcohol (ethanol), illicit drugs and selected prescription/over-the-counter pharmaceuticals. Separation techniques, means of drug identification and qualitative vs. confirmatory quantitative analytical procedures are discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRSC or major is FS or major is IHS.

MFSP 585S Clinical Forensic Emergency Medicine and Traumatology 2.0 Credits

This course bridges forensic techniques and knowledge to the care of living patients. Lectures and skills sessions will provide students with knowledge about abuse and injury as well as the forensic considerations of these patients when caring for them in the emergency department/trauma center. The course will also review the presentation and management of the trauma patient in the resuscitation area.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MFSP 588S Advanced Topics in Cell Biology 2.0 Credits

This course covers advanced topics in cell biology by student presentations and discussions of journal articles covering current research in the field. In addition to presentations, students will write a paper reviewing one of the topics discussed during the course.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MFSP 603S Medical Toxicology 2.0 Credits

The course provides an introduction to medical toxicology for students and offers an opportunity to engage in scholarly discussion of concepts, practices and medical language. The students will learn forensic emergency casework protocols including diagnostic and therapeutic assessment.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is FS.

Histotechnology

Courses

MHPP 500S Advanced Histotechnology 4.0 Credits

In depth study of routine and advanced techniques associated with the histology laboratory.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MSPA 540S

MHPP 501S Anatomy for Histotechnologists 4.0 Credits

Provides students with a comprehensive introduction to human gross anatomy. The structure of the human body is explained from a systematic standpoint with emphasis on how structures form complexes of clinical importance.

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MHPP 502S Histotechnology Capstone Project 3.0 Credits

This course will give students the opportunity to integrate the theory and the practical experiences from the previous semesters. Students will investigate a new technology technique or current issue involving histotechnology and apply the knowledge and skills developed in courses and practicum to produce a paper or technical project that supports their position. This course is the culmination of the programs courses and the practicum and will be considered the official written comprehensive examination.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MSPA 540S

MHPP 503S Histotechnology Practicum 9.0 Credits

The clinical Practicum is designed to allow the students to apply knowledge and techniques learned during their didactic courses in a clinical hospital setting. It allows the student the opportunity to perform routine as well as specialized histotechnology techniques under the supervision of a qualified histotechnologist.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MSPA 540S and MSPA 520S and MSPA 590S and MLAS 545S and MHPP 500S and MSPA 580S and MHPP 502S

MHPP T580S Special Topics in Histotechnology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Human & Molecular Genetics

Courses

GENE 895S GENETICS ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

GENE 9094S ELECTIVE - GENETICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

GENE 9754S RESEARCH - HUMAN GENETICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IMS Prog. Interdepartmental Sciences

Courses

IMSP 502S Medicine and Society 3.0 Credits

IMS, MBS, and MMS program students take a Medicine & Society course in medical ethics. Issues having a broad social, ethical, and economic impact are selected for review and discussion. These include major research breakthroughs and technological innovations, ethical consideration of biomedical research, major ethical issues related to medicine, medical care delivery systems and their socio-economic impact, demographic changes in U.S. populations, world health issues, social expectations for health care professionals and related subjects. In a lecture format with small and large group discussions, students are presented topics relating to current issues that have a broad impact in the health sciences and health professions.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 506S Medical Professionalism and Leadership 3.0 Credits

This course provides an understanding of the US health care environment that students studying to become future health care practitioners will be working in. It is designed to engage thoughtful discussions about the unique challenges and opportunities for the health care workforce of the future. Students will learn about the structure and components of the US health care delivery landscape; how that structure evolved and continues to change over time; what impact the political, economic / business, and legal climates will continue to have on the careers of health care professionals; and who and what influences how health care will be delivered.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 513S Medical Biochemistry 6.0 Credits

This course is a study of the basic principles and regulatory processes governing the chemistry of life with a special emphasis on changes that occur as a result of a pathologic condition. The purpose of the course is to provide rigorous training in the biochemical systems and pathways needed to understand clinical medicine. The pace and content-level of the course is designed to be similar to that given to a first year medical student; in fact many of the large group lectures will be taken from an actual first year medical biochemistry course. We will compare and contrast normal biochemical pathways/systems to a wide variety of different pathologic conditions, ranging from lead poisoning to inherited metabolic disorders.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 522S Medical Physiology I 3.0 Credits

This course is designed to provide you with the fundamental concepts in human physiology for your future as a healthcare professional. This information will be categorized into seven sections across two semesters. In the spring term Pulmonary, Gastrointestinal, Renal, and Reproductive Physiology will be covered. We will primarily focus on normal physiological function of the major human organ systems but will introduce pathophysiology when it reinforces or highlights a particular physiological mechanism. To accomplish our goal of helping you help yourself learn and integrate this material, we use various approaches including lectures, lecture notes, learning objectives, readings from textbooks and primary sources, group conferences, clinical case examples, and formal self-studies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 523S Medical Physiology II 3.0 Credits

This course is designed to provide you with the fundamental concepts in human physiology for your future career as a health professional. This information will be categorized into seven sections across two semesters. In the fall term Cell & Muscle Physiology, Endocrine Regulation of Body Systems, and Autonomic & Cardiovascular Physiology will be covered, and in the spring term Pulmonary, Gastrointestinal, Renal, and Reproductive Physiology will be covered. We will primarily focus on normal physiological function of the major human organ systems but will introduce pathophysiology when it reinforces or highlights a particular physiological mechanism. To accomplish our goal of helping you help yourself learn and integrate medical physiology, we use various approaches including lectures, lecture notes, etc.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IMSP 522S [Min Grade: C]

IMSP 542S Medical Microanatomy I 4.0 Credits

This course describes the tissues of the body with an emphasis on the structure of normal cells, their specializations and methods of acting together to form tissues and organs. The normal structure-function relationships at the subcellular, cellular and tissue levels are emphasized. This course provides students with a framework for recognizing and interpreting the changes seen in disease states.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 543S Medical Microanatomy II 2.0 Credits

This course describes the tissues of the body with an emphasis on the structure of normal cells, their specializations and methods of acting together to form tissues and organs. The normal structure-function relationships at the subcellular, cellular and tissue levels are emphasized. This course provides students with a framework for recognizing and interpreting the changes seen in disease states.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IMSP 542S [Min Grade: C]

IMSP 544S Medical Immunology I 2.5 Credits

This course is designed to provide a foundation in the basic concepts of immunology and then illustrate the role of the immune system in clinical medicine. It commences with the important components (cells, tissues, antibodies, immunoglobulins, and cytokines) involved in regulation and host defense against infectious agents. Introductory lectures serve to describe and differentiate between innate mechanisms and adaptive immunity mediated by functional B and T lymphocytes and their products. B cell and T cell activation, regulation, and tolerance will be described. Cellular interactions between cells and the cytokines made by helper T cell subsets and other components of the immune system (B cells, CTL, NK cells, macrophages, eosinophils etc.) will be integrated.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 545S Medical Immunology II 1.5 Credit

The Basic Immunology course is designed to provide a foundation in the basic concepts of immunology and then illustrate the role of the immune system in clinical medicine. It commences with the important components (cells, tissues, antibodies, immunoglobulins, and cytokines) involved in regulation and host defense against infectious agents. Introductory lectures serve to describe and differentiate between innate mechanisms and adaptive immunity mediated by functional B and T lymphocytes and their products. B cell and T cell activation, regulation, and tolerance will be described. Cellular interactions between cells and the cytokines made by helper T cell subsets and other components of the immune system (B cells, CTL, NK cells, macrophages, eosinophils etc.) will be integrated.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IMSP 544S

IMSP 552S Medical Nutrition 1.0 Credit

The goal of the course is to introduce some of the basic concepts of nutrition, to familiarize the student with the complexities of the issues with in-depth considerations of selected nutrients, and to consider the role of nutrition in a few clinical situations. This is intended to be a base upon which to build a more complete understanding of nutrition as topics with nutrition content arises formally and informally in the student's future. It is impossible even to introduce the entirety of the science of Nutrition in so short a time. Hence, a modest number of important topics have been chosen to be studied in detail, in the hope that if the student knows these well, the student will be able to deal more easily with the complexities of other areas.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP 562S Medical Neuroanatomy 6.0 Credits

This course will provide extensive information regarding structure and function relationships in the central nervous system. It will also provide introductory information on neurophysiology, cellular neuroscience and systems neuroscience topics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IMSP T580S Special Topics in Interdepartmental Medical Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

IMSP T680S Special Topics in Interdepartmental Medical Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Interdepartmental

Courses

IDPT 500S Responsible Conduct of Research 2.0 Credits

This two credit course is offered twice a year, one evening a week. It is presented using lecture, discussion and problem-based curriculum approaches, with associated required readings in texts. Some topics additionally require web-based exercises and quizzes. Graduate students, postdoctoral researchers and faculty discuss current issues of scientific integrity that all scientists encounter in their research. Solutions to hypothetical and real research challenges and ethical dilemmas are discussed and debated by trainees and faculty. Course sessions and discussions are led by a team of faculty leaders, including department head, deans and provosts. Grades are based on quizzes, class participation, web-based exercises, a term paper and a PowerPoint presentation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 4 credits

IDPT 501S Biostatistics I 2.0 Credits

Introduction to the theory of probability, frequency distribution, correlation's and regression analysis, probability, chi-square and analysis of variance, applications of statistics in the laboratory.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 9 times for 999 credits

IDPT 502S Learn Early As Professionals I (LEAP I) 1.0 Credit

LEAP (Learn Early As Professionals) is the first part of a professional development program that extends throughout graduate education and training in the Division of Biomedical Science Programs. It is a required course for all first year graduate students in the Division of Biomedical Science Programs. LEAP covers topics that graduate faculty, senior graduate students, and postdocs feel are important for early graduate training and future professional success.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 2 credits

IDPT 503S Searching Biomedical Literature 1.0 Credit

This course surveys information sources in the library (books, journals, computer "finding tools"), with primary focus on finding biomedical journal articles via MEDLINE. Search planning is emphasized, including points on using Medical Subject Headings and precautions when searching title/abstract words. Resources for keeping up with the literature and maintaining personal files are briefly mentioned.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 504S Learn Early and Practice (LEAP II) 1.0 Credit

LEAP II (Learn Early as Professionals II) is the second part of a formal, lecture-based professional development program. Professional development is part of the training offered in graduate education by the Division of Biomedical Science Programs. The objective of this course is to extend our discussions on topics in professional development for beginning scientists. These topics are critical for second semester graduate students as they transition through their first year of graduate school. This course covers topics that graduate faculty, senior graduate students, and postdocs feel are important for early graduate training and future professional success. Professional development is one of the core competencies required by all graduate students in the Division of Biomedical Sciences programs.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 2 credits

IDPT 505S BIOMEDICAL RESEARCH 9.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 506S Biostatistics II 2.0 Credits

Graduate Biostatistics II picks up where Biostatistics I leaves off. It teaches applications of commonly-used techniques in greater depth, with the intended audience being individuals who will be using statistics considerably in their work. This course includes one and two-way ANOVAs (and post hoc tests), multivariate techniques, power analysis, and other methods. The basic of the SPSS computer program is taught as well.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 507S Teaching Practicum I 1.0-4.0 Credit

The goal of this practicum is to provide mentored teaching experiences for graduate students enrolled in the biomedical science programs of the COM. Graduate students in COM programs can meet practicum requirements in a variety of teaching venues including but not limited to tutoring, laboratory instruction, conferences, and lectures in medical school and graduate program-specific courses. Eligible teaching experiences also include instruction for high school and undergraduate students. Credits for each practicum will be awarded according to preparation time and contact hours. 1 credit hr = 16hrs of instruction.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 508S Teaching Practicum II 1.0-4.0 Credit

The goal of this practicum is to provide mentored teaching experiences for graduate students enrolled in the biomedical science programs of the COM. Graduate students in COM programs can meet practicum requirements in a variety of teaching venues including but not limited to tutoring, laboratory instruction, conferences, and lectures in medical school and graduate program-specific courses. Eligible teaching experiences also include instruction for high school and undergraduate students. Credits for each practicum will be awarded according to preparation time and contact hours. 1 credit hr = 16hrs of instruction.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 509S Teaching Practicum III 1.0-4.0 Credit

The goal of this practicum is to provide mentored teaching experiences for graduate students enrolled in the biomedical science programs of the COM. Graduate students in COM programs can meet practicum requirements in a variety of teaching venues including but not limited to tutoring, laboratory instruction, conferences, and lectures in medical school and graduate program-specific courses. Eligible teaching experiences also include instruction for high school and undergraduate students. Credits for each practicum will be awarded according to preparation time and contact hours. 1 credit hr = 16hrs of instruction.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 521S Molecular Structure and Metabolism 5.0 Credits

Introduction to the fundamental concepts of biochemistry and molecular biology. Topics covered include the structure and function of biomolecules such as proteins, nucleic acids, carbohydrates, and lipids; enzymes; membrane transport phenomena; second messenger signaling; prokaryotic and eukaryotic DNA replication; transcription and translation; protein processing and trafficking; and intermediary metabolism.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 526S Cells to Systems 5.0 Credits

Cells to Systems provides a foundation in cell biology, with topics in cytoskeleton, cell adhesion, membrane biology, endocytosis, intracellular signaling, cell cycle, cell growth (cancer), cell senescence, cell death (apoptosis), and genetic methodologies. A final section covers integrative topics on complex biological systems operating in intact organisms.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 532S SUMMER MAKE-UP MED BIOCHEM 7.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 533S Core Principles in Biochemistry & Cell Biology 4.0 Credits

This course introduces students to fundamental concepts of biochemistry and cell biology. These core concepts serve as a basis for understanding program-specific courses and form the foundation of knowledge for every graduate student in the division of biomedical science. The course design integrates several topics into more than one lecture, but the faculty approaches the material from another perspective in each case.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 550S Biochemistry and Biophysics 5.0 Credits

This course includes the fundamentals of metabolism, enzymology, protein synthesis and structure, and molecular biology taught from neuroscience perspective. In addition, there are lectures on biophysics of ion channels, and neuronal circuits.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 600S Thesis Defense 9.0 Credits

Students who have complete all course work and research requirements, but have not defended their thesis, may carry a status of "Registered for Thesis Defense Only". This registration carries no credit, has no fee and students receive no grade. Students may only be registered for thesis defense for no more than two semesters. Students may not be registered for this category if they are registered for any other graduate courses.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 9 times for 999 credits

IDPT 601S Optional Rotation 4.0 Credits

Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 703S HUMAN SEXUALITY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 706S PHYSICIAN AND PATIENT 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 751S INTR TO GERIATRICS/GERONTOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 790S Spanish for Medical Professionals 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 800S Register for Degree Only 9.0 Credits

This is a course designated to allow students who recently defended the opportunity to finish up any loose ends while maintaining the graduate student status. Students can only register for this course after they have defended their thesis.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IDPT 801S CLINICAL PRACTICE EXAM (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 802S FOURTH YEAR RESEARCH COURSE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 821S INTERDEPT. ELECT.-NUTRITION 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 822S ACADEMIC ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 823S MD/MPH RESEARCH 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 824S MD/Ph.D RESEARCH 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 850S Literature Review Non-Thesis MS 5.0 Credits

Literature Review of a specific topic directed at fulfillment of the degree requirement for a scholarly paper by non-thesis master's students. Progress is monitored by student's advisor and advisory committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 15 credits

IDPT 901S CLINICAL EXAM PREP 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 990S INDEPENDENT STUDY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT 991S INDEPENDENT STUDY 2 0.0 Credits

College/Department: College of Medicine

IDPT 992S INDEPENDENT STUDY 3 0.0 Credits

College/Department: College of Medicine

IDPT 997S SUMMER ENRICHMENT PROGRAM 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

IDPT T580S Special Topics in Interdepartmental 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

IDPT T680S Special Topics in Interdepartmental 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

IDPT T780S Special Topics in Interdepartmental 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

IDPT T880S Special Topics in Interdepartmental 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

IDPT T980S Special Topics in Interdepartmental 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Interdisciplinary Health Science

Courses

IHS 500S Career Development in the Health Sciences Seminar I 1.0 Credit

This is the first of two seminar courses that will expose students to a variety of professions in the healthcare field. Presentations will be conducted by professionals in their respective fields. Students will also participate in group research projects investigating different healthcare professions, with the goal of examining team-based healthcare. This course will also examine effective tools to further professional development, and students will be required to complete an Individualized Development Plan (IDP).

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is IHS.

IHS 501S Career Development in the Health Sciences Seminar II 1.0 Credit

This is the second of two seminar courses that will expose students to a variety of professions in the healthcare field. Presentations will be conducted by professionals in their respective fields. Students will also participate in group research projects investigating different healthcare professions, with the goal of examining team-based healthcare. This course will also examine effective tools to further professional development, and students will be required to complete an Individualized Development Plan (IDP).

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IHS 500S [Min Grade: C]

IHS 502S Neuropharmacology 3.0 Credits

This course will introduce students to neurotransmitters and their role in nervous system function. Course readings and lectures will provide: Anatomy and physiology basic elements; drug research and treatment of nervous system disorders; and explore environmental factors that affect nervous system function.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 505S Healthcare in Spanish I 3.0 Credits

This course will permit students with an existing knowledge of Spanish to develop a rich medical vocabulary through reading, writing and class discussions. Information regarding cultural subtleties and differences between various Hispanic subcultures will further enhance students' ability to communicate with Hispanic patients. Various public health & socio-political issues impacting the treatment & management of Hispanic patients will be examined & Hispanic healthcare scholars invited for selected guest lectures.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is IHS.

IHS 506S Healthcare in Spanish II 3.0 Credits

The course is designed to build cultural competency in numerous hispanic subcultures to assist future healthcare professionals in treating and interacting with patients of hispanic heritage. Course sessions will be conducted in spanish to further enhance students' communication skills with lecture and discussion emphasizing topics of significant interest to healthcare delivery and medicine.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IHS 505S [Min Grade: C]

IHS 507S IHS Capstone Project Proposal 0.0-2.0 Credits

This is the first course in a three-course sequence. Students will select one of the following Capstone Project Tracks: Laboratory Research Track, Independent Research Track, or Community Service Research Track. This course requires completion of the Capstone Project Proposal.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 508S IHS Capstone Project Presentation 1.5 Credit

This is the second course in a three-course sequence. Building upon the Capstone Project Proposal, this course requires completion of the Capstone Project Presentation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IHS 507S [Min Grade: S]

IHS 509S IHS Capstone Project Paper 1.5 Credit

This is the third course in a three-course sequence. Building upon the Capstone Project Presentation, this course requires completion of the Capstone Project Paper.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IHS 508S [Min Grade: S]

IHS 510S Introductory Biostatistics 3.0 Credits

This web-based course is an introductory biostatistics course designed to focus on learning the statistical principles most often used in medicine and clinical research. Biostatistics has become increasingly important in clinical research and health care professionals participating in or directing research projects find knowledge about biostatistics indispensable. When reading articles in medical journals, clinicians must understand biostatistics in order to decide whether they can believe the results presented in the literature, how the study results apply to patient care, or how to interpret information about drugs. Biostatistics covers the development and application of statistical techniques to clinical scientific research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 511S Biology of Cancer 3.0 Credits

This course is a comprehensive overview of cancer, the goal is to provide students with general knowledge of cancer biology. Tumor development will be discussed as a multi-step process dependent upon changes of underlying molecular and cellular events. Additionally, the role of growth factors, oncogenes, and tumor suppressor genes will be included. Specific cell signaling pathways, cell cycle controls, and apoptosis resulting in metastasis will also be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 512S Principles of Immunology 3.0 Credits

This didactic course will acquaint you with fundamental concepts of the human immune system. First, we will introduce general features, such as innate and acquired immunity, and key players of the immune system (cellular and soluble). We will then study how these components interact to mount an immune response to various types of pathogens and illustrate mechanisms how this response is regulated. We will also discuss failures of these mechanisms, for example in immunodeficiency, hypersensitivity, cancer, and autoimmune disease. Further included is an overview of immune prophylaxis, COVID-19, and experimental systems and methods used to study immunology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 513S Scientific Writing for Healthcare Professionals 2.0 Credits

This course will introduce students to the basic guiding principles of scientific writing, and to the writing techniques necessary to effectively and efficiently communicate scientific information to professionals in the science and healthcare communities. Referencing, plagiarism, and the elements of science journal articles will also be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 514S Molecular Biology & Biochemistry of the Cell 3.0 Credits

Modern cell biology combines genetics, biochemistry, and molecular biology with traditional morphological descriptions to study how cells function at the molecular level. This course will introduce students to the dynamic relationships between the structure of cellular organelles and the numerous biochemical reactions that are necessary for cell growth, development, communication, motility, and survival with an emphasis on eukaryotic cells.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 515S Exploring Diversity in Healthcare 2.0 Credits

In a face-to-face format, this course is designed to introduce students to diversity through the examination of beliefs and practices. Culturally competent healthcare workers can reduce disparities through the provision of unbiased care. Students will discover ways to engage and support diverse populations through self-awareness and critical thinking. Current initiatives that encourage diversity will be discussed along with the practical application of culturally competent skills. Students will participate in individual and group assignments to encourage the development of cultural competence. Each class will include a lecture, pertinent activity and dialogue.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 516S Strategic Communication and Professional Development 2.0 Credits

The Strategic Communication and Professional Development course is a one semester long class to assist students in developing their academic and professional skills for careers and graduate student in the health sciences. The course will focus on graduate scholarship and interpersonal skill development.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 517S Biological Anthropology 3.0 Credits

This course will examine human adaptation, evolution, and variation. We will discuss evolutionary theory, human genetics, and the evolution of genes. We will also look at the primate kingdom and investigate the living primates, looking at their behavior and evolution. We will learn about human biological diversity and delve into the origins and validity of the race concept. The last portion of the course will be devoted to an in-depth examination of human evolution, starting with the first primates and ending with our species, *Homo sapiens*.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 518S Human Skeleton 3.0 Credits

This course will examine the developmental, evolutionary, and functional biology of the human skeleton. We will identify bones and teeth from the human skeleton using photographs, 3-D models, and other online resources. This course provides a foundation for bioarchaeology, forensic anthropology, and human evolutionary studies as well as human anatomy.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 520S Molecular & Cellular Bases of Medicine 2.0 Credits

In this course we will delve deeply into the basic molecular & cellular biology that underlies a number of diseases and therapeutic practice. The course will begin with a brief overview of fundamental molecular and cell biology concepts, and continue with a series of units, each focusing on the molecular and cell biological underpinnings of diseases or medical practices. The course will utilize exclusively online sources, including texts. Instructional modes will include live online, problem-based, and small group approaches. Students will be assessed via regular quizzes, group work, exams, and written presentations on specific applications of molecular and cell biology to biomedicine. Knowledge of college-level biology and chemistry will be assumed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 521S Neurophysiology of the Senses 4.0 Credits

Neurophysiology of the Senses, is a semester#long, course designed to provide graduate students with a strong foundation in the broad discipline of neuroscience. It is the first in a three-course sequence that will introduce several key themes, such as the structure and function of the nervous system, neuro- and synaptic physiology, the major neurotransmitter systems, sensory physiology, motor systems, drugs and their actions, and neuropharmacology of neural systems.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MSPP 515S [Min Grade: C]

IHS 522S Enhanced Laboratory Investigation I 2.0 Credits

This course is designed to offer an enhanced research experience to students enrolled in the Laboratory Techniques concentration track of the Interdisciplinary Health Sciences (IHSP) Master's Program. Students will declare their interest in this track at the end of the year 1 Spring term. They will then use the summer semester between years 1 and 2 to develop and formulate their research interests with the help of the Program Director. During this time, students will also investigate potential research opportunities in local laboratories whose research interests parallel those of the student. By the end of the summer semester, students will have chosen a laboratory in which to work, and have begun the process of developing a research project with the primary investigator (PI) of the laboratory.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is IHS.

Prerequisites: IHS 500S [Min Grade: C] and IHS 501S [Min Grade: C] and MSPP 525S [Min Grade: C] and IHS 502S [Min Grade: C]

Corequisites: IHS 507S, IHS 508S

IHS 523S Enhanced Laboratory Investigation II 2.0 Credits

Enhanced Laboratory Investigation I (ELI II) is the second of two courses designed to provide an enhanced laboratory research experience for students interested in pursuing this career option. Successful completion of this course is a requirement for the Laboratory Techniques concentration track of the Interdisciplinary Health Sciences Program (IHSP) Master's degree from Drexel University, College of Medicine. Students will work closely with a Principal Investigator to complete a 1 year hypothesis-driven research project.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is IHS.

Prerequisites: IHS 500S [Min Grade: C] and IHS 501S [Min Grade: C] and MSPP 525S [Min Grade: C] and IHS 502S [Min Grade: C] and IHS 522S [Min Grade: C]

Corequisites: IHS 507S, IHS 508S

IHS 525S Human Nutrition 3.0 Credits

This online course presents the concepts and rationale of nutrition in the context of personal, cultural and world aspects of human nutrition. Students will examine roles of nutrients in health and disease, digestion, diets, eating disorders, and other topics related to nutrition and life cycle stages. While the course has no prerequisites, the scientific rationale is developed with a minimum of assumptions and scientific terminology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS 900S Registered for Degree Only 0.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

IHS T580S Special Topics in Interdisciplinary Health Science 1.0-10.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Law

Courses

LAW 514S Banking and Finance Law and Regulation 3.0 Credits

A significant sector of the legal profession provides advice to the banking industry, to government regulators, and, of course, to individuals, corporations and other institutions in connection with banking transactions. This course will provide an introduction to the regulatory environment of the banking industry and the roles of bank regulators and central banks. Attention will be given to systematic risk and the response to that risk by way of prudential regulation, including capital and liquidity requirements. The financial crisis of 2007-8 and previous regulatory failures will be examined as will the legislative steps taken by governments to reduce risks of bank failure.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 515S Ethics and Social Responsibility: The Lawyer as Ethical Gatekeeper 3.0 Credits

We will examine, through cases, problems, discussions and readings, issues of ethics and social responsibility that arise in real life contexts and decide what principles to apply to ethical problems. Lawyers have a special responsibility in both the public and private sectors to ensure ethical behavior and to establish systems for preventing unethical behavior. Issues of concern to lawyers will be integrated into each class discussion. Particular focus will be given to the nexus between law and ethics. Another part of the course will be devoted to a study of professional values and responsibility and legal ethics. Running throughout the course is the theme of the lawyer as ethical gatekeeper.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 516S Foreign and Domestic Investment in Africa's Natural Resources: Law, Policy, and Sustainability 3.0 Credits

Foreign and domestic investment in extractive and other natural resource industries in Africa can contribute significantly to national development through tax revenue, transfer of capital and technology, job creation, linkages with local industries, infrastructure development, community development and the elimination of poverty. At the same time, the history of natural resource development in Africa sends up a warning signal that these benefits do not come without careful planning and without careful drafting. Governments need carefully crafted policies and regulatory and legal frameworks for natural resource development. Parties to natural resource agreements need skilled negotiators to achieve their goals. This course will give students the skills they need to develop these frameworks.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 517S International Commercial Arbitration 3.0 Credits

The purpose of this course is to provide an understanding of the history, process, and intricacies of international commercial arbitration. This course is especially interested in examining the practical realities faced by lawyers as they navigate the complex world of international arbitration on behalf of their clients. While the course provides basic history and context to situate international commercial arbitration in the proper legal framework, the course topics, which range from drafting arbitration agreements to enforcement of awards, are aimed at providing concrete strategies for practitioners or future practitioners in this field.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 518S International Trade and Investment: Practice and Law 3.0 Credits

Transnational trade and investment is a major and growing phenomenon in the 21st century. This course will examine the legal and regulatory frameworks of transnational trade and investment, with particular attention to developing regions in Asia, Latin America and most especially in Africa.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 520S Project Finance for Infrastructure Development in Africa 3.0 Credits

Finding a means of financing major infrastructure projects is a key to the project's ultimate success in Africa and elsewhere. "Project finance" is a favored means of enabling governments of emerging market countries and others across the world to build roads, ports and airports; provide power to their people; exploit natural resources; build medical facilities; and finance a myriad of other public works. We will examine how infrastructure projects are structured and negotiated and how related risks are allocated and mitigated. We will examine the ways in which major projects are financed, focusing on the key legal features of the financing and the various parties who bring infrastructure projects to life.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 550S Torts 3.0-5.0 Credits

This course examines the general theories of civil liability for injuries to persons or property. Topics include liability for intentional misconduct, an introduction to the law of negligence, and a strict liability as well as defenses to claims of tort liability.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 552S Contracts 3.0-5.0 Credits

This course examines the enforcement of promises and bargains. Topics include contract formation, the doctrine of consideration, formalities including the Statute of Frauds and the parol evidence rule, performance and breach, defenses, remedies.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 554S Civil Procedure 3.0-5.0 Credits

This course examines the civil litigation process with an emphasis on the federal courts. Topics include remedies, pleadings, pre-trial motion practice, discovery, motions for summary judgment, trial procedure, appellate review, and issue and claim preclusion.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 555S Legislation and Regulation 3.0 Credits

This course is intended to introduce the student to lawmaking through statutes and agency regulation in the modern regulatory state. The course will examine the reasons why we have developed into a regulatory state. It will consider the roles and relationships of Congress and administrative agencies within the three branches of government. It will look at how statutes are created and passed. The course is also designed to provide the student with an introduction to the theory and practice of statutory interpretation, including how to read and understand a statute. In addition, the course will introduce students to how agencies create and enforce regulation, including some of the requirements placed on agencies by the Administrative Procedures Act, and the judicial review of regulations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 556S Property 3.0-5.0 Credits

This course examines the basic elements of the law of real and personal property. Topics include ownership and possession of property, gifts, the rights of bona fide purchasers, adverse possession, estates and future interests in real property, and co-ownership and concurrent interests.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 558S Criminal Law 3.0-5.0 Credits

This course examines the principles that underlie liability for criminal conduct. Topics include the definition of crimes and the principles of punishment, the required acts and mental states necessary for liability, and defenses to and justifications for conduct. Specific crimes will be discussed including conspiracy and intentional murder and manslaughter.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 560S Constitutional Law 3.0-5.0 Credits

This course examines the basic issues in federal constitutional law. Topics include the role of the courts in interpretation of the Constitution, the scope of legislative and executive powers, the limitation of the powers of state and local governments, and an introduction to concepts of equal protection.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 565S Legal Methods I 2.0-4.0 Credits

This course provides instruction in the fundamentals of predictive writing and legal research, including LEXIS and Westlaw training.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 566S Legal Methods II 2.0-4.0 Credits

This course continues Legal Methods I. Students will learn additional legal research skills and will be introduced to persuasive writing techniques.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S

LAW 568S Intro to Interviewing, Counseling, and Negotiations 1.0 Credit

This course develops the practical lawyering skills of interviewing and counseling. Students will also be introduced to negotiation theory and practice.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 602S First Amendment 3.0-4.0 Credits

This course examines speech and religion clauses of the First Amendment. It considers the philosophical and historical foundation of free expression; analytical problems in First Amendment jurisprudence; and the relationships between free exercise of religion and the separation of church and state.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 603S Media Law 2.0-3.0 Credits

This course will consider media law and the practical implications of representing media clients. Topics will include: who is "the media" in a digital age; statutory and constitutional protections; prior restraints and criminal liability; civil liability arising out of publication (including defamation and other tort liability); problems of newsgathering; reporter's privilege; and advising the media client.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 604S Advanced Constitutional Law 3.0-4.0 Credits

This course takes an in depth look at individual rights under the Constitution with a particular emphasis on substantive and procedural due process and equal protection under the law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 605S Constitutional Theory 3.0 Credits

This course covers central issues in constitutional theory and practice, principally as they have arisen in the United States. Topics include the nature of constitutionalism; theories of constitutional interpretation; the use of history and narrative in constitutional argument; theories of constitutional change; the relationship between constitutional adjudication, democratic politics, and social movements; the significance of constitutional culture; the roles played by executive, legislative, and judicial actors; questions of constitutional legitimacy; and circumstances giving rise to constitutional dysfunction or crises. The course will explore these topics in the context of specific issues arising historically and in recent years.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 560S [Min Grade: D]

LAW 606S Civil Rights Law 2.0-3.0 Credits

This course explores the principles of civil rights law and practice. It will also review both the history and current development of this area of law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 608S Marshall-Brennan Constitutional Lit Sem 1.0-2.0 Credit

This is the required companion course for students participating in the Marshall-Brennan Constitutional Literacy Project. It is designed to prepare law students to teach constitutional law in local high schools and to supervise these high school students as they compete in regional and national constitutional moot court competitions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 610S Reproductive Rights & Justice 2.0-3.0 Credits

Most people know about reproductive rights because of abortion's prominence in American politics. Fewer people know about reproductive justice, a different framework for similar issues that explores how systemic oppression impacts all aspects of reproductive decision-making. This approach centers social, racial, and economic justice and focuses as much on a person's rights to have and raise children as it does on their right to not have them through access to safe and legal abortion care and contraceptive access. This course will focus on several major topics within both reproductive rights and justice: contraception, sterilization, abortion, pregnancy discrimination, assisted reproductive technology, and more.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 611S Sex, Gender, & the Law 2.0-3.0 Credits

This course will explore the law and theory of sex and gender. Looking to a wide variety of legal doctrines and theorists, students will gain an understanding of how the law was developed, where it is going, and what it should be. The course will also address other identity characteristics and how they intersect with sex and gender.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 612S Sexual Orientation and the Law 2.0-3.0 Credits

The course will focus on the interaction between sexual orientation and the law. Students will study how the transformation of social attitudes around sexual orientation plays out in various doctrinal areas.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 614S Supreme Court Seminar 3.0 Credits

This seminar will introduce students to the history and function of the United States Supreme Court. Students will study several active cases, draft simulated Supreme Court opinions, and practice oral argument. Where possible, students will actually attend one day of Supreme Court argument.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 620S Administrative Law 3.0-4.0 Credits

This course studies the law governing administrative agencies in the task of carrying out governmental programs; interrelations of legislative, executive and judicial agencies in development of public policy; decision-making processes and internal procedures of administrative agencies, and legislative, executive, and judicial controls on them.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 621S Federal Courts 3.0 Credits

This course considers the constitutional, statutory, and judicial rules that determine whether a case is tried in state or federal court.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 622S Employment Discrimination 3.0 Credits

This course studies the federal and state statutes and case law that prohibit employment discrimination on the basis of race, color, gender, religion, national origin, age, disability, and sexual orientation. This course covers substantially different material than Employment Law and students may productively take both courses.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 623S Election Law 3.0-4.0 Credits

This course considers the ways in which state and federal law regulate elections and the political process. Students will gain a perspective on both practical aspects of election regulation and the power relationships that motivate these rules.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 624S Environmental Law 3.0 Credits

This course surveys the federal and state statutes and regulatory programs which attempt to limit water pollution, air pollution, environmental degradation, species extinction, hazardous waste, and chemical regulation problems.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 625S Energy Law 2.0 Credits

This course will provide an overview of energy law. Topics will include: (1) an overview of U.S. energy policy; (2) introduction to Administrative Law and Regulatory Economics; (3) public utility regulation and deregulation; (4) preemption; (5) climate change; (6) electricity; (7) traditional fossil fuels: coal and oil; (8) nuclear power; (9) natural gas and the Marcellus Shale; (10) renewable energy; (11) conservation and storage; (12) oil and gas law; and (13) developing a revised U.S. energy policy.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 626S Animal Law 2.0 Credits

This course will encourage students to consider the philosophical and jurisprudential bases for the current status of animals in our legal system. The course will examine both the history of, and future trends regarding, that status.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 627S Admiralty Law 2.0 Credits

This is an introductory level course covering basic principles including sources of maritime law, federal and state law jurisdiction over maritime claims, special maritime remedies (arrest and attachment), carriage of goods by sea, maritime torts (collisions, allisions, pollution, personal injury claims, seamen's rights/remedies), maritime contract disputes and liens, and marine insurance. The course will cover these subjects from both a historic and pragmatic perspective.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 628S Civil Litigation Remedies 2.0-3.0 Credits

This course will help students gain an understanding of the law and policies relating to equitable remedies (specific performance and injunctions), damages at common law (compensatory and punitive damages), and restitution.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 630S Class Actions/Other Complex Litigation 3.0 Credits

This course builds on the first year civil procedure course by examining the rules and practice that apply in sophisticated litigation settings. Students will learn about representative (class) actions; how to address related cases pending in different courts and other case management issues; the application of claim and issue preclusion principles; and other issues often faced in complex litigation. The course will cover a number of recent Supreme Court cases affecting civil procedure and will provide students with the working knowledge of the procedures they will likely need in cases of any significance.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 632S Conflict of Laws 3.0 Credits

The course focuses on cases involving multi-jurisdictional elements. Three primary areas are covered: choice of the law approaches; enforcement in a forum of judgments rendered in another state; and jurisdiction over an out-of-state party. Both relationships among American states and issues involving state and federal law are addressed.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 634S Evidence 3.0-4.0 Credits

This course studies the law governing proof of disputed factual matters in criminal and civil trials, including issues of relevancy, competency, hearsay, and other exclusionary rules, and the privilege of witnesses.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 637S Advanced Evidence 2.0-3.0 Credits

This course will provide in-depth investigation of evidentiary issues relevant to trial lawyers.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 634S [Min Grade: D]

LAW 638S State and Local Government Law 2.0-3.0 Credits

This course examines state and local governments, their role in setting public policy, and the interrelationship between them. Areas to be explored may include forms and structures of state and local governments, selection of public services, taxing and spending powers, home rule, zoning law, and general powers and immunities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 639S National Security Law 3.0 Credits

This course will examine the legal frameworks governing the use of national security powers by the U.S. government. It will explore the exercise of military force, the structures of the law enforcement and intelligence communities, and the legality of counterterrorism-related activities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 640S Education Law 2.0-3.0 Credits

This course will cover constitutional and statutory law and policy issues relating to public schools, including rights of parents, teachers and students, school discipline, religion, speech, discrimination, and disability rights.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 642S Special Education Law 2.0-3.0 Credits

This class considers the law governing education of students with disabilities, with a particular focus on the Individuals With Disabilities Education Act (IDEA). Students will study the evaluation and planning process, procedural due process provisions, substantive issues such as use of least restrictive environment and school discipline, and remedies under the law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 643S Children and the Law 2.0-3.0 Credits

This course examines the relationship between children, family and the state.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 644S Family Law 3.0-4.0 Credits

This course will examine the legal and policy issues relating to the family. Topics will include marriage, including barrier to marriage and the legal relationships between spouses; parents and children; divorce and its incidents, including child support and custody, and jurisdictional issues.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 645S Pennsylvania Family Law Practice 2.0 Credits

The course will teach students the practical side of practicing family law in Pennsylvania from the initial client contact through final dissolution of the marriage or custody issues and will cover the essentials of divorce, equitable distribution, child support, alimony pendente lite, alimony, custody and special relief. Students will be divided into groups of "Plaintiff's Attorney" and "Defendant's Attorney" and will learn and be expected to determine strategy in equitable distribution, support and custody and be able to perform support calculations and spot issues related to these matters.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 646S Mediation and Arbitration 2.0-3.0 Credits

This course explores the theory, practice and law of mediation and arbitration, with an emphasis on the roles lawyers play in these processes. The course will include simulated mediations and arbitrations to foster a deeper understanding of the material and to develop lawyering skills in resolving disputes without litigation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 647S The Rights of Children 2.0 Credits

This interdisciplinary course is focused on looking critically at our treatment of children and reimagining children's rights from conception to adulthood. Over the semester, students will engage a wide-range of issues in criminal law, education law, tax law, environmental law, and family law, among other areas. Each week the class will take up a bold idea for discussion: What if children were allowed to vote? What if there was no inheritance? What if we required everyone to take time off to care for others? Throughout the term, students will work on a research paper on a topic of their choosing.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 648S Representing the Regulated Client 2.0 Credits

Using a practical approach, this course will cover the complex issues involved in representing clients who are subject to administrative regulation. Although it addresses issues relevant to a wide variety of regulated clients, it will have a particular focus on environmental regulation matters.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 652S Pennsylvania Practice 2.0-3.0 Credits

This course develops a student's practical understanding of how the Pennsylvania Rules of Civil Procedure govern civil litigation including case initiation, discovery, motion practice and pre-trial preparation. The goal of the course is to prepare a student to work as a first year associate in a civil litigation law firm.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 653S Entrepreneurial Law Clinic Seminar 1.0 Credit

The Entrepreneurial Law Clinic Seminar will meet once a week, allowing participants in the Clinic to discuss various issues they encounter in their work in a seminar setting.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 2 credits

Prerequisites: LAW 713S

Corequisite: LAW 924S

LAW 654S Lawyering Practice Seminar 2.0 Credits

This seminar focuses on learning from experiences, both in the Co-op and in later professional practice. Students will study the roles being played by lawyers and the institutions where lawyers work. They will discuss their fieldwork experiences, make formal class presentations, and listen to practicing attorneys. Enrollment is by permission only.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 655S Lawyering Practice Seminar II 1.0 Credit

This is a professionalism course designed to support students' second co-op experience as they continue to build skills and develop professional identity. Students will continue to focus on the study of lawyers and their roles and obligations within the context of their co-op and later professional practice. Course meetings will revolve around student presentations, engagement with practicing attorneys and developing a professional development plan and personal writing portfolio.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 654S

LAW 656S Justice Lawyering Sem 1.0-3.0 Credit

This course, which is a co-requisite of the field clinics, is a critical look at law and social justice.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 3 credits

LAW 657S Contemplative Lawyering 2.0 Credits

Contemplative Lawyering is course about ethics and wellbeing, both personal and professional. Through readings, podcasts, journaling, and in-class discussion, you will learn how ethics and well-being are inextricably related. You will also learn mindfulness practices, both "sitting" and "portable," that help support the cultivation of ethics and well-being. At the end of the course you will have a new set of tools to help you move forward into your life as a practicing lawyer in a healthier, more ethical, more easeful way.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 658S Labor Law 3.0 Credits

This course focuses on the laws governing collective bargaining by unions and employees, and the laws regularity the relationship between individuals and their unions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 660S E-Discovery & Digital Evidence 2.0 Credits

This course intends to prepare law students for modern-day litigation practice, which has become increasingly dependent on the understanding and use of technology. Doctrinally, this course covers the identification, preservation, collection, review, and production of electronically stored information ("ESI") in civil litigation. Practically, this course covers the organization, use and presentation of ESI from the very beginning of the case through trial preparation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 670S Criminal Procedure: Investigations 3.0 Credits

This course considers the Fourth Amendment's protection against unreasonable search and seizure, the Fifth Amendment's right to Due Process and against compulsory self-incriminations, and the Sixth Amendment's right to counsel, all with particular emphasis on the application of these constitutional provisions within the context of criminal investigation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 671S Criminal Procedure: Prosecution & Adjudication 3.0 Credits

This course will study the basic rules of criminal procedure, beginning with the institution of formal proceedings. It will emphasize prosecutorial discretion, preliminary hearings, the grand jury, criminal discovery, guilty pleas and plea bargaining, jury selection, pretrial publicity, double jeopardy, the right to counsel, and pretrial release and sentencing.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 672S Sentencing Law 2.0-3.0 Credits

This course examines theories of sentencing, sentencing regimes, use of guidelines, and constitutional limits on sentencing.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 673S Crime and Community 2.0 Credits

In this course, students will study how various communities are affected by crime and criminal justice policies. Issues that may be considered include the war on drugs, large-scale incarceration, and sexual offender regulations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAW.

LAW 674S Health Care Fraud and Abuse 2.0-3.0 Credits

This course examines the major federal and state legislation for providers who seek reimbursement under governmentally funded health care programs including the Medicare and Medicaid Anti-Kickback statute, the False Claims Act, and the Stark I and Stark II legislation and regulations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 675S Federal Criminal Law 2.0-3.0 Credits

This is a broad survey course on current federal criminal law and practice. Students will become familiar with a wide range of federal criminal statutes, theories of criminal liability and culpability, federal sentencing law, federal jurisdictional issues, and federal practice from the investigative through trial stages.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 676S White Collar Crime 2.0-3.0 Credits

This class will present an overview of white collar criminal litigation. The course will emphasize federal law and focus on liability for corporations and corporate executives, fraud, obstruction of justice, and related matters.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 678S Juvenile Justice Law 2.0-3.0 Credits

This course will conduct an in-depth study of juvenile justice jurisprudence, doctrine, and policy in the United States. It will consider particular constitutional issues as they relate to children in the juvenile justice system. It will also consider the major differences between the criminal justice and the juvenile justice systems.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 680S Death Penalty Law 2.0-3.0 Credits

This course will focus on the substantive and procedural issues presented in cases where prosecutors seek the death penalty. It will also consider the legal issues arising in collateral challenges to death sentences, particularly through the Federal habeas corpus process.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 682S Criminal & Civil Rights Litigation Strategies 2.0 Credits

This advanced litigation course is designed to train students in how to create a strategy for handling a criminal or civil rights matter. Students will begin with substantial factual material. With this base, they will move through the processes of developing a case theory, designing an investigation and discovery strategy, targeting relevant court motions, and preparation of the case for trial.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 670S [Min Grade: D] and LAW 634S [Min Grade: D]

LAW 690S Marijuana Cannabis Law 2.0 Credits

The distribution and sale of marijuana is illegal federally while an ever increasing number of states have embraced and monetized the sale of medicinal and/or adult recreational marijuana use. This class will cover: (i) the backstory to the federal-state "stand-off"; (ii) the inability of marijuana businesses to utilize, among other things: federally-insured bank accounts, customary business tax deductions, and bankruptcy protections; (iii) essential information to ethically "practice in the field" to include: cultivation, storage, testing, marketing/packaging, distribution, sales, financing, employment, licensing, regulatory and land-use compliance; and (iv) other issues including marijuana in sports, in immigration matters, in pregnancy, and issues specific to Veterans and minority communities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 700S Business Organizations 3.0-4.0 Credits

This class studies the legal attributes of corporations, partnerships, and limited liability companies. It examines the rights, duties and liabilities of managers, owners, and agents. It also focuses on formation issues, operational powers and fundamental changes in business forms such as dissolution, merger, or acquisition.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 701S Federal Income Tax 3.0-4.0 Credits

This course is intended to give students an understanding of the fundamental legal and policy concepts underlying the federal individual income tax. The course will focus on the statutory framework of U.S. tax laws, particular judicial authorities, and selected Treasury Department regulations and rulings.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 702S Enterprise Tax 3.0-4.0 Credits

This course will survey the differing federal income tax treatments of the various forms of business and investment activities, including both corporations and partnerships.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 701S

LAW 704S Corporate Finance 2.0-3.0 Credits

This course is designed to familiarize law students with the principles of corporate finance. In the world of corporate finance, the distinction between lawyers and investment bankers has blurred. Whether issuing new securities, taking a firm public via an IPO or securing a credit facility, corporate lawyers and investment bankers work side-by-side. Lawyers without an appreciation of corporate finance are at a distinct disadvantage. This course will provide the framework of these types of financings and offer students chances to test their knowledge with a series of simulated transactions during the course of the semester.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 706S Secured Transactions 3.0 Credits

This course provides an introduction to the law governing contractually created interest on personal property used to secure payment or performance of obligations. Students will study the creation, perfection, priority, and enforcement of security interests in personal property under Article 9 of the Uniform Commercial Code.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 708S Payment Systems 3.0 Credits

This course introduces the student to the law of negotiable instruments, primarily checks and promissory notes. The course focuses on Articles 3 (Negotiable Instruments) and 4 (Bank Deposits and Collections) of the Uniform Commercial Code.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 710S Bankruptcy 3.0-4.0 Credits

This course will examine both state law remedies and priorities and the federal Bankruptcy Code. Topics will include elements common to all bankruptcies, as well as Chapter 7 liquidations in the consumer context, and Chapter 8 and 13 wage-earner payout plans.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 711S Sales 3.0 Credits

This course reviews contract formation issues from the perspective of Uniform Commercial Code Article 2 and focuses on significant commercial contractual issues such as formation, performance (delivery and payment), title to goods, third party rights, warranty, and remedies.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 712S Private Equity and Venture Capital Law 2.0-3.0 Credits

This course examines the legal and financial aspects of venture capital and private equity transactions. Subjects include venture capital financing, leveraged buyout transactions, management equity incentive structures, and related tax topics. Students will also be introduced to the venture capital and private equity fund industry.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 700S

LAW 713S Transactional Lawyering 4.0-5.0 Credits

This hands-on skills course places students in the role of dealmakers. Students must anticipate legal problems and create agreements that avoid those pitfalls.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 700S [Min Grade: D]

LAW 714S Securities Regulation 3.0 Credits

This course examines securities market regulation, including registration, exemption, and remedies under the Securities Act of 1933; reporting and accounting standards under the 1934 Act; the proxy system; and the regulation of broker-dealers, specialists, and self-regulatory organizations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 715S Mergers and Acquisitions 3.0 Credits

This is an upper-level simulation course designed to familiarize the student with mergers and acquisitions practice. In a series of five exercises, students will work as teams to draft, mark-up and negotiate the provisions of an acquisition agreement. The course provides an opportunity to develop drafting, client counseling, negotiation and deal structuring skills while exposing students to the various substantive legal doctrine that impact a hypothetical cross-border leveraged buyout transaction.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 700S [Min Grade: D]

LAW 716S Antitrust 3.0 Credits

This course focuses on antitrust law, with emphasis on how modern technology might challenge traditional antitrust principles. Topics include Rules of Reason vs. per se analysis, monopolies, mergers, joint ventures, tying arrangements, exclusive dealing, predatory pricing, and other business behaviors that have arisen in a variety of industries and markets.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 718S E-Commerce 2.0-3.0 Credits

The advent of the Internet and the integration of electronic technologies into business has had an enormous impact on the way that commerce is carried out. This course will examine the legal challenges faced by businesses as they migrate to an electronic environment, and the extent to which the law must adapt to the changing landscape.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 719S Blockchain & Cryptocurrency Law 2.0 Credits

This course is designed to provide an overview of blockchain and cryptocurrency law. On the technology side, students will obtain a basic understanding of cryptocurrencies, blockchain consensus mechanisms, smart contracts, current and anticipated blockchain use cases, and significant projects in the industry. Building off this learning, students will analyze and evaluate the way lawmakers and regulators are dealing with this cutting-edge technology in the U.S., particularly in the areas of securities law. Ethical and jurisdictional considerations will be discussed throughout as applied to the role of regulators and the courts evaluating the technology. Students will be introduced to blockchain business representatives as guest speakers, and will draft and present an analysis of a selected blockchain company.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 722S Employment Law 3.0 Credits

This course studies the law regulating the employer-employee relationship. Topics include the process of establishing employment, and its terms; employers legal obligation to employees; termination; and compliance with existing regulatory regime.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 724S Nonprofit Organizations 2.0-3.0 Credits

This course will provide an overview of the legal environment of nonprofit organizations. Emphasis will be upon examining the law as it affects various aspects of nonprofits including incorporation, governance, fundraising and solicitation, employment, political activities, and tax status. Students will learn how the law regulates and structures nonprofit entities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 726S Sports Law 2.0-3.0 Credits

This course will involve application of various legal doctrines (including contracts, labor, antitrust, intellectual property, tax, torts, remedies, arbitration and constitutional law) to a broad range of sports-related activities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 728S Entertainment Law 2.0-3.0 Credits

The course will provide an overview of legal issues arising in the entertainment industry. Topics include acquisition of rights, talent agreements, project financing and structures, and distributor and licensing agreements. The course will also survey contracts, business organizations, securities, labor, copyright, trademark and rights of privacy/publicity law impacting the entertainment industry.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 730S Legal Regulation of Global Financial Crimes 3.0 Credits

This course covers a broad scope of global financial crimes and their intersection with the US financial system. Students will learn about a variety of types of financial crimes; what laws and regulations come into play; which regulators enforce them; the consequences for individuals and financial institutions who enable such crimes (whether intentionally or otherwise); the latest data breach issues, laws, and regulations (including GLBA, GDPR, and others); and how current events, politics, and technological advances intersect with these criminal enterprises.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 731S Workers Compensation 2.0 Credits

This course will address the history, statutory construction, and evolving nature of workers compensation law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 733S Employee Benefits Law 2.0-3.0 Credits

This course considers the legal, economic, and social welfare aspects of benefits provided through an individual's ties to the employment market. The course will consider mandatory benefit regimes in which all employers and employees must participate, such as Social Security and Medicare; and voluntary benefit programs, which employers may choose to adopt or not adopt for their employees.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 734S Legal Regulation of Investment Advisers 3.0 Credits

This course will thoroughly review the Investment Advisers Act of 1940 and how it laid the foundation for present day regulation. It will explore the various legal and regulatory schemes that govern investment companies and look at the key policies that drive them.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 735S Legal Regulation of Investment Companies 3.0 Credits

This course will thoroughly review the Investment Company Act of 1940 and how it laid the foundation for present day regulation. It will explore the various legal and regulatory schemes that govern investment companies and look at the key policies that drive them.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 736S Broker/Dealer Regulation 3.0 Credits

This course will discuss the legal and regulatory frameworks that govern broker-dealers. It will explore the multiple legal and regulatory regimes that govern broker dealers and affiliated institutions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 737S Banking Law 3.0 Credits

This course will explore the development of banking law and how that development shapes our current banking regulatory regime. It will also compare the US banking regulatory scheme comprised of state and federal bodies with the more uniform systems operating in many foreign jurisdictions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 740S Trusts and Estates 3.0-4.0 Credits

This course will survey the law of gratuitous transfers and inheritance.

The class will cover the creation, execution, alteration and interpretation of wills as well as the creation, revocation and interpretation of trusts and trust instruments of various types.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 741S Estate Planning 2.0 Credits

This class will introduce students to the fundamental principles and objectives of estate planning. With these fundamentals, the course will then examine the basic tools and techniques used in planning an estate to meet the needs of an individual or married couple, such as wills, various types of trusts, and lifetime gift giving. Probate of an estate, durable power of attorneys, guardianships, and planning for other life situations will also be explored.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 740S [Min Grade: D]

LAW 742S Real Estate Transactions 2.0-3.0 Credits

This upper-level property course studies the legal aspects of residential and commercial real estate sales, development and finance.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 746S Land Use Law 2.0-3.0 Credits

This course studies the principal methods of public control of private land use. It will consider issues relating to nuisance, eminent domain, taxation and zoning.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 760S Copyright 3.0 Credits

This course surveys the law of copyright. Topics to be discussed include the subject matter of copyright; ownership and transfer of copyrights; the rights afforded to copyright owners; duration of copyright rights; infringement; and remedies. Related areas of law such as author's moral rights, unfair competition, and contractual protection.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 761S Patents 3.0 Credits

This course provides an introduction to patent law, focusing upon the requirements of patentability (patentable subject matter, utility, novelty and non-obviousness), infringement, and defenses to infringement. Other topics include the economics of information and innovation competition, claims drafting, licensing, patent misuse and antitrust violations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 762S Patent Prosecution 2.0 Credits

This course focuses on drafting patents, strategy and tactics before the United States Patent and Trademark Office, and standards for patentability in the context of business effectiveness and ethical requirements.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 761S [Min Grade: D] (Can be taken Concurrently)

LAW 763S Patent Litigation & Strategy 2.0-3.0 Credits

This course will delve more deeply into the questions of patentability, infringement, licenses, and assignments. Also, it will focus on the special aspects of patent litigation arising from its technical nature.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 761S [Min Grade: D]

LAW 764S Trademarks & Unfair Competition 3.0 Credits

This course analyzes the law of unfair commercial practices. It covers trademarks, service marks, trade names, trade dress, infringement, interference with contractual relationships, appropriation of intellectual property created by another, defamation, disparagement, false advertising, unfair methods of competition, unfair or deceptive acts or practices, and remedies.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 765S Essentials of Intellectual Property Law 3.0 Credits

The purpose of this course is to prove an overview of intellectual property for those preparing to be civil or criminal attorneys who do not specialize in the field. Over the past century, the creation of new solutions and content has become a primary foundation of the U.S. economy. As such, it has become integral to the practice of business law. Some types of protection, including anti-hacking legislation, trade secrets, copyright, and trademark law, are becoming increasingly important in criminal law as well. Those interested in technology and business law will benefit from this foundational course that outlines the basics of intellectual property law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 768S Internet Law 2.0-3.0 Credits

This course addresses a variety of legal issues that relate to the Internet. Areas covered include intellectual property, electronic privacy, constitutional rights, and commercial law issues.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 770S European Union Data Privacy and Protection 3.0 Credits

This course explores the law governing information privacy, data protection, and data security in the European Union. Topics may include an introduction to the EU Data Protection Directive and the new General Data Protection Regulation (2018), the Data Protection Authorities and cybersecurity in Europe. Students will also explore the so-called "Right to Be Forgotten," and how EU law affects US companies doing business in Europe or with European entities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 780S Health Care Quality Regulation 3.0 Credits

This course examines all aspects of medical errors and quality in health care, including malpractice suits, licensing, staff privileging of doctors, and current regulatory approaches. It will also look at issues of patient rights and autonomy, including consent, medical information, clinical research, and issues in death and dying.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 781S Health Care Business Regulation 3.0 Credits

This course examines the history of the American health care system and will consider the tensions between costs and the access to care. Topics will include the federal Medicare and Medicaid systems, cost controls through health insurance and federal regulation, antitrust issues, ERISA, EMTALA, and other federal regulatory regimes.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 782S Health Policy Colloquium 2.0 Credits

This course will use case studies to examine regulatory choices in health care. The course will first examine the tools available to regulators in the U.S. health care system. The course will then consider regulatory strategies that a regulator might consider to handle several case studies.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 780S

LAW 783S Bioethics 2.0-3.0 Credits

This class explores the legal and ethical issues surrounding the development of new biological technologies. Topics may include the research bioethics, assisted reproductive technology, genetics, issues surrounding death and dying, and organ transplantation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 784S Health Care Finance 2.0-3.0 Credits

This class will consider basic economic concepts related to health care finance and private insurance.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 785S Legal Regulation of Pharmaceutical and Medical Device Research and Development 3.0 Credits

This course explores the regulatory entities and schemes governing the research and development, management, financing, and reporting requirements of clinical trials in the pharmaceutical and life sciences sectors. Topics include the role of the Institutional Review Board, compliance with Good Clinical Practice standards, informed consent, pharmacovigilance and the protection of human research subjects, payments and financial transparency, conflicts of interest, ethical considerations in designing and executing clinical trials, and reporting requirements.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 786S Products Liability 3.0 Credits

This course focuses on the theories and scope of liability arising from the distribution and sale of harm-producing products. Topics include concepts of defectiveness, design problems, duty to warn and problems with causation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 787S Legal Regulation of Pharmaceutical and Medical Device Sales and Marketing Practices 3.0 Credits

This course explores the law governing pharmaceutical and medical device sales and marketing practices, including product pricing, advertising, labeling, promotion and distribution. Topics may include identification of the entities regulating pharmaceutical and medical device manufacturers, disclosure and transparency requirements, payments to doctors and institutions, fraud and abuse, anti-bribery laws, direct-to-consumer advertising including internet advertising, off-label marketing and promotion, labeling over-the-counter (OTC) drugs, and limitations on the government's ability to regulate commercial speech.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 788S Law of Medical Malpractice 2.0-3.0 Credits

This course covers medical liability issues arising from the treatment relationship between health care providers and their patients. Topics include the history of the medical malpractice tort, its evolution as a "crisis," informed consent, the framework for a medical malpractice lawsuit, and an analysis of proposals for medical malpractice reforms.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 789S Genetics Law and Ethics 2.0-3.0 Credits

This seminar will explore key legal, ethical and policy issues in the collection, storage and use of genetic data. Genomics is revolutionizing health care as breakthrough technologies emerge at an accelerating pace in areas such as gene therapy, precision medicine and Crispr gene editing. Law and policy are struggling to keep up and strike a balance between nurturing this innovation and protecting privacy and other individual rights. The seminar will focus on the ways genetic science intersects with principles of health law and ethics in pursuit of this goal. Among the issues to be explored are duties of clinicians, patient rights, discrimination risks, eugenics, insurance underwriting, privacy threats, and property rights in data.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 790S Toxic Torts 2.0-3.0 Credits

This course will consist of an in-depth study of mass tort litigation of all kinds, at both the state and federal level, focusing primarily on the manufacture and distribution of defective and toxic products and pharmaceuticals. Class actions will be studied as a remedial tool.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 791S Regulating Patient Safety 2.0-3.0 Credits

This seminar will look at the problem of medical errors in American health care, the emerging Patient Safety movement, and regulatory strategies for reducing errors and improving quality in hospitals, drug delivery systems, and physician office practices.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 792S Food and Drug Law 2.0-3.0 Credits

This course considers the federal regulation of products subject to FDA jurisdiction, including food, human prescription and nonprescription drugs, animal feed and drugs, biologics and blood products, medical devices, and cosmetics. The course examines the public policy choices underlying the substantive law, FDA enforcement power, and agency practice and procedure.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 793S Mental Health Law 2.0-3.0 Credits

This course introduces students to the legal doctrine related to the treatment and right of people with mental illness. It will also consider the role of mental health professionals in the functioning of law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 794S Advanced Torts 2.0-3.0 Credits

Advanced Torts will cover areas of tort law particularly relevant to business, including tortious interference with contract, commercial defamation, breach of fiduciary duty and fraud, and spoliation liability.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 796S Insurance Law 2.0-3.0 Credits

This course will survey the basic types of individual and corporate insurance policies, legal principles of insurance law and the role insurance plays in society. Topics may include insurance industry regulation, policy structure, risk management and interpretation, insurance marketing, insurance intermediaries, claims, and potential insurer defenses.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 802S Reflections on Practice 1.0 Credit

This course is designed to accompany a CPT work experience. Working in the U.S. in law can be a challenging experience. The goal of this course is to help students learn from their work experience by the use of reflection and feedback.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 3 times for 4 credits

LAW 803S Beginning Spanish for Lawyers 1.0 Credit

This course is an introduction to the Spanish language for law students and is intended for students with limited experience with the language. It is designed to help students develop basic communication skills in Spanish by engaging them in a variety of interactive tasks. As a skills course, it is student-centered in order to maximize students' active participation at the individual, small group and whole group levels.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 804S Intermediate Spanish for Lawyers 1.0 Credit

This course is intended for law students who possess some experience with the Spanish language or have taken LAW 803S. It is designed to help students develop formal, professional communication skills in Spanish by engaging them in a variety of interactive tasks that mimic those found at an entry level lawyer/paralegal position. It is a skills course, which is student-centered, interactive and conversation-based. In class activities are designed in order to maximize students' active participation at the individual, small group and whole group levels.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 805S Public Interest Law and Policy 2.0 Credits

This course will explore the role of the public interest lawyer in social policy reform, including impact litigation and non-litigation advocacy. Teams of 2-3 students will choose an issue they care about, learn about advocacy strategies and, through role playing, research, and drafting, experience what they could do to address their chosen issue. The course will include pre-trial litigation and non-litigation exercises and activities (e.g., class action complaints, mock depositions, draft legislation, mock public testimony, draft settlement agreements...), lectures and class discussions on a wide range of issues.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 811S Expert Witnesses 2.0-3.0 Credits

This course will examine the legal, policy, and practice considerations relating to the use of expert witnesses in civil and criminal cases. The course will examine the various roles of expert witnesses in civil and criminal cases, the rules of evidence that govern the recognition of experts and admissibility of expert testimony, techniques for effective direct examination and cross-examination of experts, and the ethical guidelines most relevant to expert testimony. This course will emphasize how attorneys can work effectively with experts (across disciplines) in the context of litigation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 812S Behavioral Science Applications to the Law 2.0-3.0 Credits

This seminar is designed to inform law students and selected doctoral students in psychology about the usefulness of social science information in the practice and scholarship of law while at the same time indicating the problems and pitfalls of using such information particularly at the appellate level. Thus, this seminar explores the interplay and conflict between law and psychology and the many ways in which social science research can or should have an influence on legal decision making.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 819S Transactional Competition Team 1.0-6.0 Credit

This course is restricted to students who have been approved by the instructor to participate as team members in a transactional lawyering competition approved by the instructor, such as the Transactional LawMeet®. Students are required to participate fully as a team member and to compete effectively in the selected competition under the supervision of the instructor or a senior practitioner selected by the instructor to serve as the team's coach.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 18 credits

Prerequisites: LAW 713S [Min Grade: D] (Can be taken Concurrently)

LAW 820S Immigration Law 3.0-4.0 Credits

This course covers issues in immigration law including inadmissibility and deportability, relief from removal, asylum and refugee status, citizenship, nonimmigrant and immigrant visas, and administrative and judicial review.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 821S European Union Law 2.0-3.0 Credits

This course will cover an analysis of the Treaty of Rome and other relevant legal instruments and the major institutions and characteristics of European Union law, including basic freedoms of the treaty (free movement of persons, goods, services, and capital), the Commission, the European Parliament, the European Council, the Council of the European Union, and the Court of Justice of the European Union.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 822S Comparative Constitutional Law 2.0-4.0 Credits

Focusing on constitutional structure and law in a variety of countries, this course will address comparative approaches to issues as judicial review, judicial appointment, separation of powers, federalism, and fundamental rights. The course will also explore fundamental, underlying questions about the nature of constitutions and constitutionalism, processes of constitution design, political constraints on constitutional rights and constitutional courts, and constitutional culture.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 824S International Law 3.0-4.0 Credits

This course will examine the nature and sources of international law; international organizations, including the United Nations and the International Court of Justice; and the developing law of human rights. Other topics include the role of international law in the United States courts; the law relating to the use of military force; and international trade law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 825S International Human Rights Advocacy & Practice 2.0-3.0 Credits

This seminar explores the use of international human rights strategies to advance social justice advocacy in the United States. On issues ranging from racial disparities in the criminal justice system to access to housing, U.S. lawyers increasingly use the human rights mechanisms of the United Nations and Inter-American Human Rights System, draw on international human rights and comparative foreign law in litigation before U.S. courts, and engage in broader advocacy such as documentation, organizing, and education. The course will examine the growing movement to incorporate international human rights strategies into U.S. social justice lawyering, explore the relevance of U.S. human rights advocacy in the current political landscape, and develop practical approaches to thoughtfully engage these tools.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 826S Refugee and Asylum Law 2.0-3.0 Credits

This course explores the treatment of foreign refugees and political asylees, with particular emphasis on relevant statutes, regulations and treaties.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 827S Immigration Litigation 2.0 Credits

The course will focus on handling cases before the immigration court. Beginning with an overview of the immigration court system and pertinent parts of immigration law, this course will also examine grounds of removal and of inadmissibility, bond motions, grounds to challenge the Notice to Appear, three of the most common forms of relief, adjustment of status and fear of return to home country. The course will be geared to a practical handling of these problems, but with a firm grounding in the legal authorities.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 828S International Business Transactions 2.0-3.0 Credits

This course examines the legal framework of private international business transactions including: sales of goods and services, foreign investment, technology transfer and government regulation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 830S Professional Responsibility 2.0-3.0 Credits

This course will examine the ethical duties of lawyers toward clients, courts, and society. The course emphasizes the Model Rules of Professional Conduct, the Model Code of Professional Responsibility, and relevant case law. Topics covered include confidentiality, conflicts of interest, competence, fee arrangements, and the unauthorized practice of law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 832S Contract Theory Seminar 2.0-3.0 Credits

This course is designed to get students thinking more creatively and deeply about the ideas animating contract law and policy. While the first-year Contracts course is about mastering the technical aspects and doctrines of contract law, this course is about taking those skills to another level. The overarching course goal is to consider and discuss the ideas which undergird and give life to contract law. The course will cover the basics of contract theory, surveying some different ideas about "the grand unifying theme of contract," examining the strengths and weaknesses of these different ideas and theories of particular doctrines in contract law (this could include consideration, promissory estoppel, efficient breach, and/or special problems of form contracts).

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 833S Race and the Law 2.0-3.0 Credits

This course considers the role of race in American law and examines the role of law in constructing notions of race.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 834S Jurisprudence 3.0 Credits

This course addresses essential questions about the nature of law and its role in society. What is law? What is its source of legitimacy? How does it function? Readings will consider major texts in Western jurisprudential philosophy.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 836S Legal History 2.0-3.0 Credits

This course surveys Anglo-American legal history from the origins of the common law through the 20th century. The course will focus on the development of both legal institutions and substantive law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 838S Foundations of Legal Analysis 2.0 Credits

This course is designed to develop and refine the skills necessary for legal analysis and writing. The course will be taught using a hands-on, experiential approach largely driven by written classroom exercises and written assignments submitted for evaluation and feedback by faculty. The course is based on three principles: varied and frequent writing practice; faculty feedback on written assignments; and analysis of writing models.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 840S Literature and The Law Seminar 2.0-3.0 Credits

This seminar will explore the role of law, legal institutions, and legal actors in literature. It will also consider the ways in which literature and literary theory can be used in practice.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 842S Law and Mind Sciences 2.0-3.0 Credits

Much of law and legal theory is based on commonsense assumptions about human behavior: criminals are evil; contracting parties act freely and with full knowledge; and workplace discrimination results from conscious prejudice. This seminar will explore evidence from social psychology, social cognition, cognitive neuroscience, and related fields that challenges these and similar conceptions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 844S Law and Social Movements 2.0-3.0 Credits

This course studies the various ways in which law succeeds - or fails - to bring about changes in the allocation of rights to groups and individuals. The class will focus on particular legal and social change movements, considering the effectiveness of strategies such as litigation and law reform.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 848S Courts and Public Policy 2.0-3.0 Credits

This course explores how public policy is created, interpreted, and implemented through various governing agencies including courts, legislatures, administrative agencies, and "street-level" bureaucrats. Readings will examine the practical concerns about the capacity and competence of these different institutions to make and enforce laws. The course will engage theoretical questions, considering both the powers and limitations of courts in a democratic society.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 850S Inside-Out: Crime and Inequality in the United States 3.0 Credits

This course explores the history of criminal justice policy in the United States through the Inside-Out Prison Exchange Program. The Inside-Out Program seeks to deepen conversations about crime and justice by creating opportunities for dialogue between those on the inside and those on the outside of correctional facilities in the United States.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 866S Advanced Immigration Law 2.0-3.0 Credits

This course covers advanced issues concerning the law, policy, and politics of immigration and citizenship in the United States, including relevant perspectives on those issues from other disciplines. Topics covered may include the constitutional power to regulate immigration and its limits, discrimination against noncitizens by private and public entities, workplace and labor rights of noncitizens, the intersection of immigration and criminal law, federal enforcement priorities, asylum and humanitarian protections, state and local enforcement initiatives, immigrant integration and inclusion policies, the politics and policy of immigration reform, and selected contemporary litigation.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 820S [Min Grade: D]

LAW 870S Business Law Legal Research 1.0-2.0 Credit

This course covers business law-related resources, in both print and electronic format, including primary and secondary sources; company information and demographics; SEC and tax information and documents; and current awareness tools. Students will learn how to locate, use and evaluate these resources.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S and LAW 566S

LAW 871S Intellectual Property Legal Research 1.0-2.0 Credit

The goal of this course is to provide students with grounding in the materials essential to performing introductory intellectual project research, enabling them to complete complex IP research assignments, whether for coursework or practice. Classes will contain an overview of research tools, explanations on how to use them effectively and assignments demonstrating their proper use. This course will augment current and future IP course offerings.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S and LAW 566S

LAW 872S Health Law Legal Research 1.0-2.0 Credit

The goal of this course is to provide students with the tools necessary to perform effective legal research in all areas of health care law. Students will learn how to use electronic and print resources and techniques to research health law statutes, legislative history, case law, regulations, and literature, as well as medical and health sciences information. Overviews and explanations of research tools and sources will be given.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S [Min Grade: D] and LAW 566S [Min Grade: D]

LAW 873S Foreign and International Legal Research 1.0-2.0 Credit

This class will give students a working knowledge of research methods, in traditional print sources and in electronic formats, for conducting research in the laws of foreign countries and international law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S [Min Grade: D] and LAW 566S [Min Grade: D]

LAW 874S Pennsylvania Legal Research 1.0 Credit

In this course, students will become familiar with Pennsylvania primary resources (including cases, statutes, regulations, court rules, etc.) and Pennsylvania secondary legal resources (including practice guides, treatises, and CLE materials.) The class will cover all available resources, including print resources, free electronic resources, and subscription database resources. Grading is Credit/No Credit.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S [Min Grade: D] and LAW 566S [Min Grade: D]

LAW 875S Litigation Legal Research 1.0 Credit

The goal of this course is to prepare law students for research in civil litigation practice. Students will learn how to use electronic and print resources to find, evaluate, and use primary and secondary sources to support each stage of the litigation process. Classes will contain an overview of research tools, explanations on how to use them effectively and efficiently, and assignments demonstrating their proper use. Grading is Credit/No Credit.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 876S Tax Law Legal Research 1.0-2.0 Credit

The goal of this course is to introduce students to the concepts of tax research and the sources of tax authority. The learning outcomes for this class include giving students familiarity with statutory interpretation and legislative history, regulations, administrative decisions and letter rulings, case law, and secondary sources on tax law. There will also be discussion of the authoritative weight of various types of tax materials. The course focuses on Federal tax law, but includes an overview of state tax research—with an emphasis on Pennsylvania law—as well as international tax research.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S [Min Grade: D] and LAW 566S [Min Grade: D]

LAW 877S Criminal Law Legal Research 1.0-2.0 Credit

This course covers basic criminal law research resources, in both print and electronic formats. Main topics include the following: primary and secondary resources of criminal law and procedure; interdisciplinary research; criminal law reports and statistics; and current awareness resources. This class covers both federal and state criminal law resources.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 565S [Min Grade: D] and LAW 566S [Min Grade: D]

LAW 880S Advanced Legal Research 1.0-2.0 Credit

This course provides students a thorough grounding in the research skills needed by today's lawyers. Students will learn how to use advanced electronic and print resources and techniques to research case law, statutes, legislative histories, administrative law, and other practice-based research tools.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 882S Litigation Drafting 2.0 Credits

This course explores technical and strategic issues in the drafting of litigation documents such as complaints, answers, written discovery, motions, affidavits, discovery schedules, pretrial orders, jury instructions, releases and correspondence. Students will complete a number of drafting assignments in and out of class.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 884S Contract Drafting 2.0 Credits

In this course, students will develop basic skills needed to draft and revise contracts. Through a variety of writing assignments, students will learn the component parts of typical contracts and their purpose, as well as the ways in which the substantive content can be customized to satisfy a particular client's needs and concerns. This involves translating deal points into contract concepts, as well as revising legal boilerplate to enhance and protect their client's interests. The course is designed to be helpful for students who plan to be litigators, as well as students who plan to do transactional work.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 886S Writing Strategies for the Bar 2.0 Credits

This course will prepare students for the written portions of the bar exam - essays and performance test questions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 887S Advanced Legal Analysis and Bar Skills 2.0-4.0 Credits

This course will prepare students for the written essays, performance tests and multiple-choice questions of the bar exam. Students will develop their exam-writing skills by taking practice questions under exam conditions and receiving critiques of their answers. Students will also review several areas of substantive law commonly tested on bar exams. NOTE: This course is not a substitute for a commercial bar review course.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 888S Writing for Judicial Clerkship 2.0 Credits

This is an upper level writing course designed to prepare students seeking judicial clerkships for their particular writing tasks.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 890S Improvisation for Lawyers 1.0 Credit

In this intensive course, students will hone their legal performance skills by studying improvisational theater techniques. The course will involve extensive hands-on performance.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 891S Communicating for Success 2.0 Credits

The goal of this interactive seminar is to assist students in becoming practice-ready when they graduate from law school. The course will explore the array of skills and values that lawyers need to be effective in working with their clients using a relationship-centered model. Participants will draw upon their real world experiences in and out of law school to develop concrete tools and techniques to communicate with clients in a wide variety of contexts and to achieve better outcomes. Grading is Credit/No Credit.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 892S Starting & Managing Law Pract 1.0-2.0 Credit

This course is designed to equip students with the knowledge, skills, and resources required to establish or manage a law firm. Topics will include marketing, case management, and ethical considerations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 893S Accounting for Lawyers 2.0 Credits

This course will introduce students to financial statements and accounting concepts that will facilitate law practice with corporate clients and in other matters where financial auditing is involved.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 894S Moot Court Board 1.0-6.0 Credit

Students will be selected by the faculty supervisors to serve on the moot court board. Students will develop an intra-scholastic moot court competition and will be eligible to compete in interscholastic competitions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 4 times for 6 credits

LAW 895S Legal Decision Technology 3.0 Credits

This course explores how legal decision technology can be used to expand public access to legal information. Students will learn about cutting edge legal decision technologies, hone their statutory interpretation skills, and build interactive apps that answer specific legal questions. This is a hands on, lab-style class, but no prior programming experience is required.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 896S Alternative Dispute Resolution Competition Team 1.0-6.0 Credit

Students who have been selected for one of the Alternative Dispute Resolution competitions will enroll in this course and complete all required work in order to earn co-curricular credit for competition.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 3 times for 24 credits

LAW 897S Technology for Law Practice 3.0 Credits

This course teaches the basic technological and software skills needed for a daily law practice. Topics will include legal document management, drafting, and collaboration; spreadsheets; timekeeping; billing; e-discovery; case and practice management; cybersecurity; technology ethics and professional responsibility; and PDF creation and manipulation. Students will complete a legal technology audit that they can use as a blueprint for their future practice.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 900S Pre-Trial Advocacy 2.0-3.0 Credits

Students will learn the major steps in the pretrial litigation process including theory development, client interviewing, informal fact, investigation, pleading, discovery, depositions, pretrial motions, jury selection, and the settlement process.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 902S Introduction to Trial Advocacy 0.0-3.0 Credits

This course will teach students to perform trial skills based on strategic themes and theories. The students will conduct direct and cross-examination of lay, party and expert witnesses, opening and closing statements, make objections and introduce exhibits. The course will culminate with each student performing in a mock trial.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 634S [Min Grade: D] (Can be taken Concurrently)

LAW 904S Advanced Trial Advocacy: Civil 2.0-3.0 Credits

This course is a continuation of Introduction to Trial Advocacy and is an advanced civil trial skills class which teaches students advanced trial skills; evidentiary issues; and case development. Students will perform exercises and develop case theories using mock civil cases.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 902S [Min Grade: CR]

LAW 906S Advanced Trial Advocacy: Criminal 2.0-3.0 Credits

This course is a continuation of Introduction to Trial Advocacy and is an advanced criminal trial skills class which teaches students advanced trial skills; evidentiary issues; and case development. Students will perform exercises and develop case theories using mock criminal cases. The course will culminate with a criminal mock trial.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 902S [Min Grade: CR]

LAW 907S Advanced Trial Advocacy: Courtroom Technology & Advocacy 2.0-3.0 Credits

This advanced course focuses on analyzing both criminal and civil cases and preparing those cases for a presentation before a jury. The course is specifically designed to expand the skills already developed during the Introduction to Trial Advocacy course. The course methodology combines lectures, demonstrations and individual student performances, during which students will be responsible for conducting all aspects of a trial. There will be extensive critique and feedback by instructors experienced in the art of effective trial advocacy. The course culminates with each of the students conducting a complete mock trial. The course requires that all aspects of the students' trial presentations be given while utilizing technology, which may include TrialPad for the iPad, Power Point, Timeline 3d, iThoughts, etc.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 902S [Min Grade: CR]

LAW 908S Adv Trial Ad: Trials/Century 2.0 Credits

This course will teach students to understand, develop and perform advanced trial skills based on strategic themes and theories used throughout the trial process. Students will analyze actual trial transcripts and exhibits, and movie vignettes of advocates from famous "Trials of the Century".

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 902S [Min Grade: CR]

LAW 910S Appellate Advocacy 2.0 Credits

This course provides students with advanced training in appellate advocacy, including the study of the rhetoric of persuasion, the preparation of appellate briefs and effective oral advocacy, and will include an introduction to appellate procedure. This course is required for students serving on the moot court board.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 912S Deposition Skills & Technology 2.0 Credits

Students will receive instruction through focused lectures, demonstrations and feedback from the professors on in-class performances. Students will spend a significant amount of time analyzing civil case files, preparing witnesses for depositions, learning questioning techniques and performing depositions of lay witnesses, parties and experts. Students will also use iPads with loaded deposition software to learn how to prepare and take depositions. Students will also use iPad technology to prepare post-deposition analysis of the depositions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 918S Trial Team 1.0-6.0 Credit

Students will compete in inter-scholarship mock trial competition.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 4 times for 6 credits

LAW 920S Drexel Law Review 1.0-6.0 Credit

Students will receive credit for their work in preparing and contributing to, the Drexel Law Review.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 4 times for 6 credits

LAW 922S Federal Reentry Court Practicum 1.0-3.0 Credit

This class is designed to support the Supervision to Aid Reentry ("STAR") Program (aka "Federal Reentry Court"). Federal Reentry Court assists previously incarcerated federal prisoners to successfully reenter the community. Students will provide legal representation to participants on matters, including challenging traffic citations and fines, restoring driving privileges, landlord/tenant disputes, family law, and identity fraud. Students must participate in court sessions and attend a bi-weekly seminar. Students may elect to receive 1-2 academic credits per semester, or to receive pro bono credit. Students must make a year-long commitment to participate in both the seminar and the other aspects of the project, regardless of credit election.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 923S Pennsylvania Innocence Project Practicum 3.0 Credits

This is a practicum in which students work on behalf of individuals claiming they were wrongly convicted of a crime and seeking exoneration. Each student will be assigned cases under the supervision of an attorney. In the course of investigating factual claims and researching legal issues, students will review criminal files, interact with investigators, contact other attorneys, interview the client and witnesses, gather documentation, and prepare legal documents and memoranda. Students will also learn the law relevant to both innocence claims and legal issues in their cases.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 924S Entrepreneurial Law Clinic 5.0-6.0 Credits

The Clinic will offer business and intellectual property law counseling to entrepreneurial start-ups based in the Greater Philadelphia area. These services will range from entity formation, founders' agreements, and employment law counseling to trademark and patent registrations and general intellectual protection counseling.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 18 credits

Prerequisites: LAW 700S [Min Grade: D]

LAW 925S Field Practicum 1.0-3.0 Credit

This is an immersive real-world experiential course designed to support students as newcomers to legal practice. Students will focus on the study of lawyers and their roles and obligations, and also have the opportunity to examine legal institutions within the context of a directed field experience into which the student has previously been accepted.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 21 credits

LAW 931S Law Co-op 3.0-9.0 Credits

The Co-op is a field placement in a corporation, law firm, judicial office, public interest organization, or government agency. Students must attend a pre-placement orientation and will work a set number of hours per week and satisfy the supervisor's expectations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 27 credits

Corequisite: LAW 654S

LAW 933S Co-op Intensive 9.0-10.0 Credits

The Co-op is a field placement in a corporation, law firm, judicial office, public interest organization, or government agency. Students must attend a pre-placement orientation and will work 35-40 hours per week and satisfy the supervisor's expectations.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 2 times for 14 credits

Corequisite: LAW 654S

LAW 941S Criminal Litigation Clinic I 5.0-6.0 Credits

This clinical program places students in a criminal practice setting. Students will represent criminal defendants in all phases of pre-trial and trial activity. Students must enroll in both semesters of the clinic.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 942S Criminal Litigation Clinic II 5.0-6.0 Credits

This course is a continuation of LAW 941S.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 941S

LAW 943S Civil Litigation Clinic I 5.0-6.0 Credits

This clinical program places students in a civil practice setting. Students will learn varied litigation skills in the context of direct representation of clients. Students must enroll in both semesters of the clinic.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 944S Civil Litigation Clinic II 5.0-6.0 Credits

This course is a continuation of LAW 943S.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 943S

LAW 947S Federal Litigation and Appeals Clinic 5.0-6.0 Credits

This clinic provides intensive litigation training in cases before federal courts and agencies. The clinic's current focus is on representing individuals in immigration matters. Students play a lead role in all aspects of their cases. Students will counsel clients, conduct fact investigation, develop case strategies, draft briefs and other filings, conduct court hearings, represent clients on appeal, and handle other matters related to their clients' cases, all under the supervision of the clinic director. Students must enroll in both semesters of the clinic. A grade will be assigned at the end of the Spring semester.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 948S Federal Litigation and Appeals Clinic II 5.0-6.0 Credits

This clinic provides intensive litigation training in cases before federal courts and agencies. The clinic's current focus is on representing individuals in immigration matters. Students play a lead role in all aspects of their cases. Students will counsel clients, conduct fact investigation, develop case strategies, draft briefs and other filings, conduct court hearings, represent clients on appeal, and handle other matters related to their clients' cases, all under the supervision of the clinic director. Students must enroll in both semesters of the clinic. A grade will be assigned at the end of the Spring semester.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 947S

LAW 950S Community Lawyering Clinic I 5.0-6.0 Credits

The clinic offers students the unique opportunity to employ a variety of strategies including litigation, legal reform, community education, media advocacy, and even international advocacy to support the mobilization efforts of community groups working on the ground to achieve social justice. During the second semester, students, in collaboration with community leaders and guided by their ground-level work in the first semester, will design and implement projects aimed at addressing the systemic challenges facing the community, such as improving access to justice. The goal of the clinic is to build students' capacity as lawyers, leaders, advocates, policy analysts, and community organizers, while at the same time empowering and serving the community.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAW.

LAW 951S Community Lawyering Clinic II 5.0-6.0 Credits

This is a continuation of LAW 950S. Students must enroll in both semesters of this year-long clinic.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAW.

Prerequisites: LAW 950S

LAW 960S CPRL: Structural Change in Public Education Seminar 5.0 Credits

This course is for students participating in the intensive semester program at Columbia University's Center for Public Research and Leadership (CPRL). Students must apply through CPRL. This course represents the seminar portion of the experience.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 961S CPRL: Skills Training 2.0 Credits

This course is for students participating in the intensive semester program at Columbia University's Center for Public Research and Leadership (CPRL). Students must apply through CPRL. This course represents the skills training portion of the experience.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 962S CPRL: Education Research Project 6.0 Credits

This course is for students participating in the intensive semester program at Columbia University's Center for Public Research and Leadership (CPRL). Students must apply through CPRL. This course represents the professional consulting experience portion of the experience.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 970S Introduction to United States Legal Systems 2.0-3.0 Credits

This course is an introduction to legal and ethical principles driving the U.S. legal system in the context of the history and jurisprudence of American law. It is designed to familiarize the student with the relevant and governing legal principles which are used in American jurisprudence. It will combine both an inquiry into these matters, and a more detailed study of legal issues, through special, current topics. The course seeks to develop a professional level of understanding in the student of a comprehensive approach to legal issues and the relevance of that methodology to professional ethics and life of the law in the United States.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is AMLP.

LAW 971S English for International Lawyers: Working with Legal Texts 1.0-3.0 Credit

This course is designed to provide non-native English speakers with an introduction to working with legal texts to strengthen written and verbal communication skills.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is AMLP.

LAW 981S Litigation Technology 2.0-3.0 Credits

This course will primarily focus on teaching students how to master pre-trial and trial advocacy skills through the use of the latest litigation technology.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 982S Jury Selection 2.0 Credits

This course will primarily focus on the substantive law relating to jury selection and the strategic skills that students will need to master the art of jury selection. Students will learn both the Federal and PA statutes that govern jury selection as well as analyzing the leading case law relating to the constitutionality of jury selection. Students will also watch skilled lawyers and judges conduct voir dire and practice the skill themselves.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 998S Thesis I –Scholarly Legal Writing: Planning and Preparation 3.0 Credits

This course will introduce you to research and writing techniques commonly used in legal scholarly writing. Specifically, this course will help you identify and develop an original thesis topic and will provide you with the foundation needed to draft, edit, and present an original scholarly work of publishable quality in Thesis II.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LAW 999S Thesis II – Scholarly Legal Writing: Writing, Refining, and Presentation 3.0 Credits

Following Thesis I, this course will provide faculty-guided oversight and mentorship for the drafting, editing, and presentation of an original piece of publishable-quality legal scholarship akin to a law review article. Students will confer with a faculty advisor weekly, either live or via real-time video conference, submit interim drafts as assigned, and receive meaningful faculty feedback. Students will submit a final scholarly paper and present it to colleagues in a workshop format.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Prerequisites: LAW 998S

LAW I599S Independent Study in LAW 1.0-6.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LAW I699S Independent Study in LAW 1.0-6.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LAW I799S Independent Study in LAW 1.0-6.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LAW I899S Independent Study in LAW 1.0-6.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LAW I999S Independent Study in LAW 1.0-6.0 Credit

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LAW T580S Special Topics in LAW 1.0-5.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LAW T680S Special Topics in LAW 1.0-8.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LAW T780S Special Topics in LAW 1.0-5.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LAW T880S Special Topics in LAW 1.0-5.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LAW T980S Special Topics in LAW 1.0-6.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

Legal Studies

Courses

LSTU 500S Introduction to the Legal System 3.0 Credits

This course will begin to help students "think like lawyers" by providing an overview of the United States legal system. It will explain the legislative and judicial processes, so that students will gain an understanding of where the power to regulate originates and the basis of federal law and regulations. The course will then focus on substantive areas of the law, such as torts, contracts, and criminal law.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 1 times for 6 credits

LSTU 501S Compliance Skills: Auditing, Investigation & Reporting 2.0-3.0 Credits

This is a skills course that provides students opportunities to develop internal audit skills and strategies, conduct internal investigation work plans, and draft executive level communications. The skills taught will include work plan development, investigative techniques, interviewing methods, class presentations, and drafting of projects plans and board/executive level reporting.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CHEC or major is CHRC or major is CNCA or major is CRMM or major is LSTU.

LSTU 502S Ethics and Professional Standards 2.0-3.0 Credits

Students will be exposed to fundamental issues and current best practices in managing issues of ethical/legal compliance, corporate social responsibility and business ethics. Topics cover business issues, including anti-corruption, environmental crimes/compliance, child labor, employment discrimination, crisis management, whistleblowing, retaliation, fraud, privacy, sustainability and social enterprise. Special attention is given to preparing students to understand and manage the demands on corporations making complex business decisions in the face of increasing expectations for transparency and accountability.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LSTU.

LSTU 503S Legal Research and Analysis 2.0-3.0 Credits

Students will learn how to research topics and distill their research in written form through a series of exercises. They will also be expected to complete numerous written communications of increasing length and complexity. Detailed feedback will be provided on all written exercises by the professor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CNCA or major is LSTU.

LSTU 504S Health Care Rules and Regulations 3.0 Credits

This course is designed to provide students with an understanding of the laws and regulations encountered by compliance professionals. The course will equip students to apply statutory and regulatory principles to situations that they will encounter in their work.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LSTU.

LSTU 505S Health Care Quality, Patient Safety and Risk Management 3.0 Credits

This course will examine methods and tools for managing quality in health facilities, physician practices, managed care, and public health; including developments in quality assurance and improvement, utilization review, risk management, and patient satisfaction.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CNCA or major is LSTU.

LSTU 506S Patients and Privacy: HIPAA and Related Regulations 2.0-3.0 Credits

The focus of this course will be the privacy and security provisions of the Health Insurance Portability and Accountability Act of 1996 (HIPAA), the foundation for federal protections of health care information. Additionally, the course will examine the interplay between HIPAA and other federal and state health privacy laws and the application and enforcement of those laws in a variety of health care settings. The class will incorporate discussions about the close and evolving relationships among health care policy, evolving social norms, and health privacy laws.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is LSTU.

LSTU 507S Risk Assessment and Management 3.0 Credits

Risk assessment and management has become a crucially important field for private sector business as well as government sector agencies and organizations, particularly over the past decade following the passage of laws such as Sarbanes-Oxley and Dodd-Frank. This course will examine regulatory compliance and risk management issues that impact various corporate and governmental entities, providing students the opportunity to explore risk analysis and compliance in a variety of legal environments.

This course will help familiarize students with issues that might arise in corporate risk management departments, contracts departments, risk management consulting, and the regulatory compliance departments of financial services industries, banking, insurance, credit, risk assessment, and benefits management.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CHEC or major is CHRC or major is CNCA or major is CRMM or major is LSTU.

LSTU 510S NCAA Governance Process 3.0 Credits

This course will allow students to examine whether the increasing intensification of college sports might support or detract from higher education's core mission. Students will begin to understand the NCAA legislative process, and understand the tradeoffs between the intensification of sports programs and educational policy at higher education institutions.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CNCA or major is LSTU.

LSTU 511S NCAA Rules I and Infractions Cases 3.0 Credits

This course will cover NCAA Division I rules and regulations. Students will also examine the impact of intercollegiate athletics on undergraduate education, particularly at large public research universities with high-profile football and men's basketball teams playing at the top National College Athletics Association level.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CNCA or major is LSTU.

LSTU 512S NCAA Rules II and Enforcement Process 3.0 Credits

This course will continue to cover NCAA Division I rules and regulations, the impact of intercollegiate athletics on undergraduate student athletes and non-athletes, and the funding of academic departments.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CNCA or major is LSTU.

LSTU 513S Sports Agents and Athletes 2.0-3.0 Credits

This course examines the history of the sports agent business and the rules and laws developed to regulate the profession. Students will also learn about the recommendations for reform, including uniform laws that would apply to all agents, redefining amateurism in college sports, and stiffening requirements for licensing agents. The passage of the federal Sports Agent Responsibility and Trust Act will also be covered.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CNCA or major is LSTU.

LSTU 515S Information Privacy Law 3.0 Credits

This course will introduce students to the development of information privacy law in the United States. It will focus on legal regulations limiting government access to private information as well as laws regulating the ability of third parties to access such information. It will conclude with an introduction to the privacy regulatory regime imposed by the Federal Trade Commission and European Union regulators.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LSTU 517S The Law and Strategies Surrounding Cybersecurity 3.0 Credits

This course will introduce students to the legal and regulatory frameworks governing US cybersecurity. It will examine topics including domestic cybersecurity standards, data breach notification and response, and the creation of compliance programs to manage cybersecurity risks.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LSTU 520S Legal Issues in Employee Hiring and Termination 3.0 Credits

Legal issues in hiring and termination of employees are at the core of human resources responsibilities. This course will examine regulatory compliance and management issues that arise in the context of hiring and terminating employees with special consideration of federal law and its continued developments. This course will help familiarize students with issues that arise in human resource departments, particularly as they pertain to those points of entry and exit and where the need to document becomes a critical duty of those managing the hiring, evaluation and termination process.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 1 times for 6 credits

Restrictions: Can enroll if major is CHRC or major is LSTU.

LSTU 521S Human Resources Compliance: Managing the Employer/Employee Relationship 3.0 Credits

This course is designed to introduce students to the fundamentals of human resource compliance and regulation and to provide an overview of the skills necessary to manage human resources effectively. The course will examine why human resource management matters in today's business world and will show how employee performance and legal compliance serve as intermediary processes that connect human resource practices to organizational performance and effectiveness. Students will discuss the various ways in which the employer/employee relationship can be harnessed in positive ways rather than be seen in an adversarial light. This course will highlight issues that might arise in human resource departments, compliance departments and benefits management departments.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHRC or major is LSTU.

LSTU 522S Human Resources in Practice: Negotiation, Mediation, and Alternative Dispute Resolution 3.0 Credits

Human resource managers deal not only with laws, rules and regulations, but also and foremost, with people. This course explores the practical reality of working in human resources and provides the necessary skills to ensure competency and success. The course focuses on negotiation with subordinates, peers and supervisors; mediation, because human resource workers often act as informal mediators between employees and supervisors; and alternative dispute resolution, as more employers require their employees to submit their complaints to some form of resolution process as an alternative to a formal lawsuit. This course will familiarize students with issues that arise in human resource departments and provide them with concrete tools to analyze, understand, and implement the best possible path to resolution.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHRC or major is LSTU.

LSTU 530S Corrections Law 2.0-3.0 Credits

This course is designed to introduce students to the constitutional rights of prisoners and the implications of those rights for prison management. In particular, students will gain a working knowledge of the role of the First Amendment in regulating inmate mail, associational rights, religious practice, and visitation. They will learn how the Fourth Amendment relates to searches of both inmates and visitors. Students will discover how the Fifth and Fourteenth Amendment Due Process rights control inmate transfer, classification and discipline. They will also learn how the Eighth Amendment controls prison policy with respect to the conditions of confinement and provision of health care.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CRMM or major is LSTU.

LSTU 539S Compliance Communications 3.0 Credits

This course serves as an introduction to the fundamentals of writing specific to the growing area of compliance and addresses why compliance writing is different than general business writing. Assignments are drawn from the various types of writing that are typical of compliance professionals in various industries. Topics include writing for different audiences (various corporate departments, c-suite executives, boards of directors, regulators, the public, etc.), policy and procedure writing, the complexities of communicating with a diverse global audience, investigation memos and evaluation/communication of metrics-based data.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

LSTU 540S MLS Masters Capstone 3.0-4.0 Credits

This course will provide students with faculty and peer support and guidance in preparing a capstone research project in completion of the Master of Legal Studies. Students will prepare a major written project which may consist of a novel legal claim supported by a substantial literature review or an experientially-based study grounded in a substantial literature review.

College/Department: Thomas R. Kline School of Law

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is CHCC or major is CHRC or major is CNCA or major is LSTU.

LSTU I599S Independent Study in LSTU 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LSTU I699S Independent Study in LSTU 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LSTU I799S Independent Study in LSTU 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LSTU I899S Independent Study in LSTU 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LSTU I999S Independent Study in LSTU 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated 6 times for 6 credits

LSTU T580S Special Topics in LSTU 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LSTU T680S Special Topics in LSTU 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LSTU T780S Special Topics in LSTU 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LSTU T880S Special Topics in LSTU 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

LSTU T980S Special Topics in LSTU 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: Thomas R. Kline School of Law

Repeat Status: Can be repeated multiple times for credit

Master of Lab Animal Science

Courses

MLAS 500S Animal Nutrition 3.0 Credits

This course will provide an overview of the basic principles of animal nutrition including nutrition concepts and related historical/current research. Upon completion, each student should understand the digestion, absorption and metabolism of the various food nutrients, characteristics of the nutrients, measurement of body needs, and ration formulation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 501S Laboratory Animal Seminar 2.0 Credits

This course is open to second year MLAS students. The seminar allows students to network with other laboratory animal professionals in preparation for their career in the field. Each week, a different guest speaker will present information about state-of-the art equipment, animals and techniques.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 502S Occupational Safety and Health in Laboratory Animal Care and Use Programs 3.0 Credits

The role of an occupational safety and health program is to recognize health risks and hazards associated with the care and use of research animals. The goal of this course is to assist the laboratory facility manager and/or supervisor with the development or re-evaluation the occupational safety and health program within their individual animal care and use program.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 503S The Institutional Animal Care and Use Committee's (IACUC) Role in Animal Research 3.0 Credits

The Institutional Animal Care and Use Committee (IACUC) is responsible for overseeing and evaluating all aspects of an animal care and use program. This course will introduce students to the origin, authority, membership, and functions of the IACUC. Specific functions such as: oversight, review of animal use proposals, animal care and use concerns, and record keeping will be addressed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 504S Public Outreach for Animal Research 3.0 Credits

This course will provide a solid foundation about animal research and its role in producing new knowledge and discoveries that benefit the public, other animals, and the environment. Students will learn about the range of outreach tools and techniques for engagement with the broader public, including how to speak about the important role they play in the laboratory animal environment.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 9 credits

MLAS 507S LAT Certification Prep 2.0 Credits

This course will prepare the student to sit for the AALAS LAT certification exam. The AALAS Technician Certification Program sets professional standards for the advancement of laboratory animal science. The program was developed to recognize professional achievement and provide an authoritative endorsement of a technician's level of competence in laboratory animal technology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 508S LATG Certification Prep 2.0 Credits

This course will prepare the student to sit for the AALAS LATG certification exam. The AALAS Technician Certification Program sets professional standards for the advancement of laboratory animal science. The program was developed to recognize professional achievement and provide an authoritative endorsement of a technician's level of competence in laboratory animal technology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 510S Clinical Orientation In Laboratory Animal Facilities 1.0 Credit

Two hours per week of hands-on experience working in the university's laboratory animal facilities. Students do most of the daily work performed by the animal technicians, such as cage washing, placing animals into new cages, environmental sanitation, treatments (if necessary), tuberculosis testing of primates and the like. Species usually housed include rats, mice, rabbits, guinea pigs, dogs, cats, primates, swine, etc. The goal of the course is to provide the necessary skills and exposure to allow students to become familiar with many of the examples that will be used in later courses by their instructors. It also provides an introduction to the Practicum experience of the second year.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 514S Hematopoiesis (Upenn) 1.5 Credit

Lecture at the University of Pennsylvania veterinary school. Correlates clinical and basic science in comparative hematology. Recent developments in clinical medicine and basic research of disorders of blood cells. A paper on a hematology topic makes up part of the grade.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 520S Financial Mgmt In Lab Anim Sci 3.0 Credits

Animal facility managers and veterinarians must understand more about financial management than they realize. It is not unusual for budgets and cost-accounting methods to be poorly understood, and therefore left to others. The manager is at the mercy of somebody else's numbers, yet he or she may be held responsible for hundreds of thousands of dollars.. The instructor, an animal facility manager with an M.B.A. degree, gives a strong background in many aspects of financial management, not just those that are core to animal facility and veterinary practice management.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 521S Arch Eng & Plan For Anim Fac 4.0 Credits

The course of instruction, presented by one of the nations leading architectural and engineering firms, encompasses general design considerations, working with architects and engineers, reading and producing drawings, proximity considerations, control systems, heating, ventilation, air conditioning, etc. The goal is to give the student a unique background, not only in facility design and engineering, but also in understanding why things are the way they are. Students are expected to develop and present a floor plan.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 523S Organizational Management 3.0 Credits

Organizational management provides the theoretical background necessary for the practical application of managerial skills especially in laboratory animal facilities.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 525S Animal Anatomy 2.0 Credits

An introductory independent study course that will provide a background in gross animal anatomy. Students will learn comparative anatomy by comparing the anatomical structures in several species of laboratory animals using synthetic models.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 529S Molecular Genetics 3.0 Credits

The focus of this course is to expose students to "cutting edge" molecular genetic concepts as they apply to laboratory animal science. The course provides a description of DNA structure, an overview of its replication and function in gene expression, an overview of the structure and function of nuclei & chromosomes, a sampling of tools used for genome analysis and a sampling of the basic techniques used in a molecular genetics laboratory. Various genome-sequencing projects are discussed along with the information they provide about the organization of a complex genome.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 530S Biostats In Vet Science 3.0 Credits

This course will cover biostatistical methods and principles and their application in the field of veterinary science-both in clinical setting and in research. The application of biostatistics in veterinary epidemiology will also be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 531S Embryology 3.0 Credits

Embryology is the study of anatomy from the time of fertilization through the time of birth. The course discusses the "hows" and in part the "whys" concerning the development of the morphology and structure of the body. Knowledge of embryology is essential for understanding gross anatomy and the developments of birth defects.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 535S Biology & Care Of Lab Animals 4.0 Credits

Many specialists in laboratory animal science teach this course. Part of this course is devoted to discussions of the ethics of using animals in biomedical research. The remainder of this team taught course discusses the care, use and husbandry of rodents, lagomorphs, primates, farm animals, carnivores, etc., as well as presentations on sanitation and other pertinent subjects. The primary goal is to provide the student with the information needed to properly care for the physical and psychological needs of laboratory animals.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MLAS 510S

MLAS 536S Animal Models for Biomedical Research 1.0 Credit

In this course university investigators will discuss their research using animal models, emphasizing why they chose the animal model they are using and how the model helps them understand basic biological processes. Grading is based on a single term paper.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 545S Fundamentals of Histology 3.0 Credits

This course is a survey of the basic tissues of the body with an emphasis on the structure of normal cells, their specializations and methods of acting together to form tissues and organs. The normal structure-function relationships at the subcellular, cellular and tissue levels are emphasized. This course provides students with a framework for recognizing and interpreting the changes seen in disease states.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 546S Special Topics in Anatomy 4.0 Credits

Cross listed course given concurrently with students from other programs. This course is mostly human oriented. MLAS students who have gone on to veterinary school have commented on how valuable it was. It provides a systemic review of the entire body. Human prosections are included in the course work.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 606S Clinical Laboratory Techniques and Concepts 1.0 Credit

Hands-on and theoretical laboratory work. Teaches animal handling and injections, serological testing, microbiology techniques, hematology and urinalysis. There is an emphasis on correct specimen handling and preparation as part of a quality control program. Your instructors will expect you to do independent reading and be able to extrapolate your knowledge to various case reports.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 610S Diseases of Laboratory Animals 3.0 Credits

Reviews the major diseases of laboratory animals, and provides information on surgery, anesthesia and radiology. Unlike clinical veterinary medicine where a common objective is to make a sick animal healthy, in laboratory animal medicine the objective is to prevent a healthy animal from becoming sick. The goal of the course is to have the student understand means of disease prevention and recognition. This course will be taught, as much as possible, in a modified problem based learning format.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is LAS.

MLAS 800S Registered for Degree 0.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS 801S Laboratory Animal Practicum 12.0 Credits

The practical application of what was learned in class. The entire final MLAS semester is spent in one of many animal facilities in the Philadelphia area or around the nation. To the extent possible, time is divided between basic animal care, management, laboratory techniques, and research. S/U grading.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MLAS I599S Independent Study in Master of Laboratory Animal Science 0.0-12.0 Credits

Self-directed within the area of study requiring intermittent consultation with a designated instructor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 0 times for NaN credits

MLAS T580S Special Topics in Laboratory Animal Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MLAS T680S Special Topics in Laboratory Animal Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MLAS T780S Special Topics in Laboratory Animal Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MLAS T880S Special Topics in Laboratory Animal Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MLAS T980S Special Topics in Laboratory Animal Science 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Medical Science Preparatory

Courses

MSPP 505S Laboratory Techniques in Biochemistry & Molecular Biology 2.0 Credits

This is a laboratory course that is designed to introduce students to essential concepts, contemporary techniques and procedures used in biochemistry and molecular biology research laboratories.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 511S Concepts in Biochemistry and Cell Biology 4.0 Credits

This course introduces structure and function of the major groups of biomolecules (proteins, nucleic acids, lipids and carbohydrates) and essential structures that constitute a cell. Also discussed are basic biochemical and molecular mechanisms/pathways that contribute to homeostasis, such as protein synthesis, cellular energetics, signal transduction, and techniques to study cells and their constituents.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 512S Psychosocial and Behavioral Factors in Health and Medicine 3.0 Credits

This course will provide a foundation of information regarding the psychosocial, cultural and behavioral determinants of health and wellness specific to the practice of medicine. Topics will address psychological, sociological and biological concepts from the extant literature and how these concepts relate to best practices and standards of care in health settings.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 513S Advanced Human Anatomy 4.0 Credits

This course provides extensive exposure to select organ systems at the gross anatomical, microscopics, and ultrastructural levels. Structural and functional relationships are considered in depth. The format of the course is slide-show and lecture-based. Please note: this is not a cadaver based dissection course.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 515S Advanced Human Physiology 4.0 Credits

Topics covered in this course include: homeostasis, cellular physiology, membrane and neuronal physiology, central and peripheral nervous systems, muscle physiology, cardiac physiology, blood vessels and blood pressure, blood and body defenses, respiratory systems, urinary system, fluid and acid base balance, and the endocrine system.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 525S Community Dimensions of Medicine 2.0 Credits

This course introduces students to the community dimensions of medicine in an effort to provide skills and insight that will expand their cultural competence as they move towards a career in healthcare. The curriculum is designed to integrate key principles of health and healthcare inequities with concrete experiences had while volunteering with local health service sites. Students will be challenged to reflect on individual, societal and institutional factors that contribute to their own health as well as their surrounding community. Through a cohort-wide project that consists of planning and managing a health symposium, students will have the opportunity to network with public health researchers and healthcare professionals.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 550S Research Project 2.0 Credits

This course involves conducting an independent bench-top, or clinical research project under supervision of an advisor within or outside the university. The research can be conducted at a clinical site, basic science research lab, or as a community project in psychology or public health and requires a minimum time commitment of 80 hrs. Students are expected to identify an advisor and, in conjunction with the advisor, to develop a hypothesis that is to be tested during this 80 hour period. The advisor must have a PhD, MD or DO, or other terminal degree ONLY. Upon completion of the project, students will submit a paper summarizing their project. A grade of S (satisfactory) or U (unsatisfactory) will be assigned based upon the completion of the required 80 hours, as evaluated by the advisor, and a paper.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP T580S Special Topics in Medical Science Preparatory 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Medicine

Courses

MEDI 8010S Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8015S Ambulatory Medicine Clerkship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI 8112S Allergy/Immunology-2wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8114S Allerby, Asthma and Immunology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8122S GEN INTERN MED/COMMUN MED 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8124S GENERAL INTERNAL MED/COMM. MED 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8126S GENERAL INTERNAL/COMM. MED 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8128S MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8132S Women's Hlth Ambulatory* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8134S Women's Health-Ambulatory 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8142S Women's Health-Academic* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI 8144S Women's Hlth Education 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8154S Ambulatory Rheumatology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8162S Women's Hlth in Community* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8164S Women's Hlth in the Community 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8174S College Women's Health 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8182S Women's Health & Public Policy 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8184S Women's Health & Public Policy 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8194S Clinical Cardiology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8222S Ambulatory Nephrology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8224S Ambulatory Nephrology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8234S Ambulatory Endocrinology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8244S Pulmonary Elective 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8272S AMBULATORY CARE - 2 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8274S AMBULATORY CARE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8312S CLINICAL CARDIOLOGY - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8313S CLINICAL CARDIOLOGY - 3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8314S CLINICAL CARDIOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8322S CORONARY CARE UNIT 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8324S Coronary Care Unit Subintern 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8334S HEART FAILURE/TRANSPLANT 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8342S Cardiology:Consult. 2wks (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8344S CLINICAL CONSULT CARDIOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8352S ECG READING - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8354S ECG READING 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8362S CARDIAC ELECTROPHYS & ARRHY 2WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8363S CARDIAC ELECTROPHYS & ARRHY-3WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8364S Cardiac Electrophys & Arrhythm 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8372S ECG-INTERP/NON-INVASCARDIO 2WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8373S ECG Non Invasive Cardiology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8374S ECG INTERP/NON-INVASIVE CARDIO 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8412S Endocrinology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8413S Endocrinology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8414S ENDOCRINOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8502S MEDICINE SUBINTERNSHIP - 2 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8504S MEDICINE SUBINTERNSHIP 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8512S GENERAL INTERNAL MEDICINE 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8514S GENERAL INTERNAL MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8524S MEDICAL CONSULTATION 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8622S Ambulatory Gastr&Hepatology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8624S Ambulatory Gastro & Hepatology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8632S CLINICALGASTROENTEROLOGY- 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8633S CLINICAL GASTROENTEROLOGY-3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8634S CLINICAL GASTROENTEROLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8642S Clin Gastro & Hepatology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8644S Clin Gastro & Hepatology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8652S Clin Gastro & Hepatology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8654S Clin Gastro & Hepatology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8712S PHYSICAL & REHAB MED 2WKS(S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8714S PHYSICAL & REHAB MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8722S Addiction Medicine-2wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8724S Addiction Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8734S Urgent Care/Amb. Med/Onc UC 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI 8746S Indian Health Services-6 weeks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 876S INFECTIOUS DISEASES 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8812S PULMONARY MEDICINE - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8813S Pulmonary Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8814S PULMONARY MEDICNE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8822S Pulmonary and Critical Care* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8824S Pulmonary Med/Intensive Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8832S MED INTENSIVE CARE UNIT-2WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8833S Medical Intensive Care Unit 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI 8834S MEDICAL ICU/CCU SUBINTERNSHIP 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 889S PULMONARY MEDICINE - 2 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8912S INFECTIOUS DISEASES- 2WKS(S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 8913S Infectious Disease 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8914S Infectious Diseases 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8926S TROPICAL MED &INFECT DIS-6 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8928S TROPICAL MED & INFECT DIS-8WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8932S Hospitalist Medicine* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 8934S Women's Health in Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9092S ACTING INTERNSHIP IN PM&R-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9093S ELECTIVE-MEDICNE -3WKS. 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 9094S MEDICINE - ELECTIVE 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9096S MEDICINE - ELECTIVE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9112S RHEUMATOLOGY - 2 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 9113S Rheumatology-3wks 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9114S RHEUMATOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9124S RHEUMATOLOGY/IMMUNOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 914S RHEUMATOLOGY/IMMUNOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 915S CLIN GASTROENTEROLOGY AT ACDH 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9212S Geriatric Medicine*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9214S Geriatric Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9222S Palliative Care*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9224S Clin Elect - Palliative Care 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 9234S HOSPICE/ PALLIATIVE CARE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9312S Hematology & Oncology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9313S HEMATOLOGY & ONCOLOGY - 3 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9314S HEMATOLOGY & MED ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9322S Ambul. Hematology/Oncology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9324S Ambulatory Hematology/Oncology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 9332S BONE MARROW TRANSPLANT 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9334S BONE MARROW TRANSPLANT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9342S Hematology/Med Onc Inpt*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9344S Hematology/Med Onc Inpt Cnslt 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9412S BUS. OF MED.,MANAGED CARE 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 9414S BUS OF MEDICINE - MANAGED CARE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9482S HIV MEDICINE - 2WKS (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9484S HIV Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 948S HIV MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9512S CLINICAL NEPHROLOGY - 2 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**MEDI 9513S Nephrology - 3 Weeks 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**MEDI 9514S Clinical Nephrology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits

MEDI 9612S OCCUPATIONAL MEDICINE- 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 9614S OCCUPATIONAL MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9634S Clinical Informatics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9752S RESEARCH- MEDICINE- 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 9754S RESEARCH - MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

MEDI 9758S Research-Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9764S RESEARCH - HUMAN GENETICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI 9812S Inclusion Health Elective* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI 995S CORONARY CARE UNIT 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S524S InfectiousDisease&HIV Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S564S Ward Medicine Acting Intern. 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S584S Med-Respiratory ICU 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S594S Outpt Internal Med Primary Car 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S664S Combined Med-Peds Elective 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S744S Blood&Marrow Stem Cell Transpl 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S812S Adv.Wilderness Life Support* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI S846S CDC Epidemiology Elective Prog 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S854S Digestive Diseases 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S864S Integrative Medicine-Virtual 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

MEDI S874S Clin Infectious Disease&Microb 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S884S Internal Med Subspecialty Elec 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S894S Clin Infect Dis-Transplant&Can 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S903S Cardiac Intensive Care Unit 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S914S Breast Medical Oncology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S924S Sub-I in Internal Med & Psych 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S934S Life with IDD 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S944S Culinary Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S952S Sleep Medicine* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S964S Acting Medicine Internship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S974S Vascular Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S982S Clinical and Lab Hemostasis* 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Microbiology and Immunology

Courses

MIIM 500S Medical Microbiology 5.0 Credits

This course offers detailed discussion of immunology and all aspects of the major infectious diseases of bacterial, viral, parasitic and mycotic origins. The course, although designed for medical students, also accommodates graduate students, who will be required to complete additional assignments.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 502S Microbiology and Immunology Journal Club 1.0 Credit**

Faculty members rotate in directing this weekly session devoted to increasing the critical analysis skills of students, providing experience in oral presentation of data, increasing student awareness of various sources of literature, and exposing students to current areas of importance in microbiology and immunology. Recent topic themes have included T-cell immunoregulation, molecular virology, regulatory and safety requirements in microbiology research, lymphokines and cytokines, neuroendocrine immunology, bacteriocins, molecular biology of parasites, and regulation of humoral immune responses.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated 9 times for 10 credits**MIIM 503S Biomedical Ethics 2.0 Credits**

Explores the key responsible conduct of research topics that are the foundation of scientific integrity. Through reading assignments, learning modules, simulations, cases studies, role-play, and a team project, students learn about, discuss, and debate the ethical dilemmas and challenges research scientists encounter. **NOTE:** This online course does not fulfill requirements for participation in NIH-sponsored research. Students interested in conducting NIH-sponsored research should instead enroll in IDPT 500S Responsible Conduct of Research.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 504S Microbiology and Immunology 1st Rotation 4.0 Credits**

First laboratory rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during the spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 505S Microbiology and Immunology 2nd Rotation 4.0 Credits**

Second laboratory rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during the spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 506S Microbiology and Immunology 3rd Rotation 4.0 Credits**

Third laboratory rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during the spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 508S Immunology I 3.0 Credits**

This is a graduate level introductory course that will cover basic principles of immunology. The format is a lecture series with student participation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Prerequisites:** IDPT 533S [Min Grade: B] (Can be taken Concurrently)**MIIM 512S Molecular Pathogenesis I (Viral Pathogenesis) 2.0 Credits**

This course introduces fundamental concepts in molecular virology through presentation and discussion of viruses that cause disease in humans. Students learn about important aspects of virus infection, including virus structure, replication, molecular pathogenesis, antiviral immune responses, the development of antiviral drug therapies, and the use of viruses in gene therapy. Students also learn to read, understand, and critically evaluate virology-related papers published in the primary literature.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**MIIM 513S Molecular Pathogenesis II 3.0 Credits**

Designed to convey basic concepts concerning the molecular mechanisms of disease caused by pathogenic microorganisms. Utilizes information derived from in vitro and in vivo model systems as well as studies performed in humans to enhance understanding of diseases caused by bacteria, fungi, parasites and viruses. The immune response and other host defense mechanisms will also be examined. The course is designed to complement the first year graduate core curriculum and will strive to develop analytical thought processes. Students learn to identify gaps in knowledge, formulate important and experimentally approachable questions, and develop sound hypotheses to direct the generation of new scientific discoveries. The development of sound specific aims and experimental design will also be emphasized.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

MIIM 514S Grant Building 2.0 Credits

This course provides students with training in scientific writing that culminates in the preparation of an NIH-style grant application. Each student prepares an original research proposal based on an assigned primary paper in the microbiology and immunology literature. Assignments during the course are completed in a progressive manner, and are guided by both faculty mentorship and peer review by classmates. At the conclusion of the course, each student submits a written proposal and presents an oral defense of the research outlined in the written proposal.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IDPT 533S [Min Grade: B]

MIIM 515S Concepts in Biomedicine I 3.0 Credits

Introduces basic concepts of eukaryotic cell organization and function, with emphasis on macromolecules (i.e., proteins, nucleic acids, polysaccharides and membranes) and their microenvironment. Will provide a foundation to normal body functions at the cellular and molecular level.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 516S Concepts in Biomedicine II 2.0 Credits

Introduces basic aspects of fundamental eukaryotic cellular processes that control cell growth and function, with emphasis on biochemical pathways and regulatory mechanisms, cell cycle, intracellular trafficking networks, and cellular communication mechanisms. Will provide a foundation to normal cellular processes that are dysregulated in disease states such as cancer and infections.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 517S Applied Statistics for Biomedical Sciences 2.0 Credits

An intensive introduction to statistical methods. Students learn to apply principles of statistical reasoning, underlying assumptions, and careful interpretation of results. In addition, students learn how to present statistical data within various contexts applicable to the field of biomedicine, such as laboratory research, scientific publications, bioethics, intellectual property, business decisions, entrepreneurship, and visual representation of data. Students will use statistical software to supplement learning and applications of statistics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 6 credits

MIIM 518S Foundations of Applied Biomedicine 3.0 Credits

Introduces the fundamental aspects of normal eukaryotic cell structure, function, and the processes that control cell growth and communication. Emphasis is on cellular macromolecules (i.e., proteins, nucleic acids, polysaccharides and membranes) and how normal cellular processes and regulatory mechanisms can be dysregulated in disease states, such as cancer and infections. Will provide the scientific foundations that can be applied to biomedical innovation and discoveries.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 519S Commercialization of Biomedical Technology 3.0 Credits

Introduces students to the different stages of the biomedical technology development and commercialization process from ideation or discovery through its delivery to the hands of consumer. Emphasis is given primarily to FDA-regulated biomedical products (i.e., drugs, devices, and diagnostics).

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 520S Science Communication and Outreach 2.0 Credits

This course is a community-based learning course and combines in-class lectures and discussions with fieldwork. The priorities of the course are two-fold. First, to improve science communication skills with the public and secondly to address the need to dismantle systemic racism in the sciences and build a future that includes a diversified science community. The course is based on current peer-reviewed literature, current events, and societal issues. The student will participate in two outreach initiatives that require on-site visits or virtual synchronous meetings.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 521S Biotechniques I: Molecular and Genomic Methods 2.0 Credits

A review of the molecular, cellular and computational methods that underlie modern biotechnology, drug discovery and development. The focus is on experimental techniques used to manipulate nucleic acids and to research the interaction of proteins with nucleic acids. Strengths and limitations of the procedures are considered, and their suitability for either a basic or industrial research setting evaluated. Complements MIIM 522S Biotechniques II.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 522S Biotechniques II: Immunological Methods 2.0 Credits

A review of current immunologically-based experimental techniques and how they are applied to many different areas of research. Provides basic information central to the concepts and techniques pertinent to the study of immunology, the analysis of immune responses, and development of vaccines. Complements MIIM 521S Biotechniques I.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 523S Molecular Virology 2.0 Credits

This course will provide a comprehensive overview of the molecular aspects of viral pathogenesis, using various host-virus interactions as models.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is MMED.

MIIM 524S Vaccines and Vaccine Development 3.0 Credits

This course will provide information pertaining to the history of vaccines, the principles of vaccine design, the concepts of induction of the immune protection, and the choice of vaccine types. Emphasis will be given to current and future methods for vaccine design, and approved tests for safety and efficacy. The concepts of prophylactic and therapeutic vaccines will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 525S Principles of Biocontainment 1.0 Credit

Explore the conceptual and practical aspects of biosafety and biocontainment. Gain a greater appreciation for the risks posed by human pathogens. Learn about approaches and procedures used to minimize those risks and contain potentially harmful pathogens. Topics covered in the course include: the classification of biological hazards; collection and storage of biohazardous materials; the practicalities of working in biocontainment facilities, and design considerations for biocontainment in the laboratory and in the field.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 527S Immunology, Immunopathology and Infectious Diseases 3.0 Credits

Explores basic knowledge of immunity from the organism to the cellular level, with a focus on how the immune system elicits protection against invasion by pathogenic organisms, and how these same responses may be damaging to the host.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 528S Structural Bioinformatics 2.0 Credits

Structural Bioinformatics is an interdisciplinary course designed for students with basic biology background to utilize and integrate novel computational methods in their research program. The course consists of basic molecules of programming in bioinformatics and extends to teach all aspects of protein structure modeling, molecular dynamics simulation ligand design and optimization and principles of molecular docking. Lectures are supplemented with hands-on sessions.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: IDPT 533S [Min Grade: B] or MIIM 530S [Min Grade: B]

MIIM 530S Fundamentals of Molecular Medicine I 3.0 Credits

The first of a three-part course series, which provides a foundation in essential topics in biochemistry, cellular and molecular biology and genetics. Focuses on macromolecules (i.e., proteins, nucleic acids, polysaccharides and membranes) and their microenvironment within the eukaryotic cell. It is recommended that students also enroll in MIIM 534S Molecular Medicine Journal Club I for practical application of concepts learned in the analysis and interpretation of original scientific research and data.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 531S Fundamentals of Molecular Medicine II 2.0 Credits

The second of a three-part course series, which provides a foundation in essential topics in biochemistry, cellular and molecular biology and genetics. Focuses on processes that control eukaryotic cell growth and function, with emphasis on biochemical pathways and regulatory mechanisms, cell cycle, and cellular communication mechanisms. It is recommended that students also enroll in MIIM 533S Molecular Medicine Journal Club II for practical application of concepts learned in the analysis and interpretation of original scientific research and data.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 530S [Min Grade: B]

MIIM 532S Fundamentals of Molecular Medicine III 2.0 Credits

The last of a three-part course series, which provides a foundation in essential topics in biochemistry, cellular and molecular biology and genetics. Focuses on normal organismal development and cancer. Includes significant independent reading of primary scientific literature and writing based on such reading.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 530S [Min Grade: B] and MIIM 531S [Min Grade: B]

MIIM 533S Molecular Medicine Journal Club II 1.0 Credit

In depth discussion of published primary scientific literature. Develop skills to analyze, interpret and represent scientific data in various topics in biochemistry, molecular biology and genetics, with emphasis on mammalian cells. Discussion topics are aligned with topics discussed in MIIM 531S Fundamentals of Molecular Medicine II.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 2 credits

MIIM 534S Molecular Medicine Journal Club I 1.0 Credit

Introduction to the journal club format of in depth discussion of published primary scientific literature. Develop skills to analyze, interpret and represent scientific data in various topics in biochemistry, molecular biology and genetics, with emphasis on mammalian cells. Discussion topics are aligned with topics discussed in MIIM 530S Fundamentals of Molecular Medicine I.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 2 credits

MIIM 535S Biomedical Technology Commercialization I 1.0 Credit

Introduces students to the different stages in the technology development and commercialization, with emphasis on biomedical technology, drugs, devices, and diagnostics. Topics include identification of assessment of emerging technologies, product development strategy and planning, and regulatory requirements. Through faculty and/or guest speaker presentations, and case studies students will develop skills and knowledge necessary to evaluate the commercial viability of new technologies. This is the first of a two-part course series.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 536S Biomedical Technology Commercialization II 1.0 Credit

Builds upon the concepts introduced in part I of this course series. Introduces students to the different stages in the technology development and commercialization, with emphasis on biomedical technology, drugs, devices, diagnostics, biomedical communications and gaming. Topics include market and industry analyses, and development and integration of business and commercialization strategies. Through faculty and/or guest speaker presentations, and case studies students will develop skills and knowledge necessary to evaluate the commercial viability of new technologies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 540S Viruses and Viral Infections 2.0 Credits

Introduces fundamental concepts in molecular virology through presentation and discussion of viruses that cause disease in humans. Students learn about important aspects of virus infection, including virus structure, replication, molecular pathogenesis, antiviral immune responses, the development of antiviral drug therapies, and the use of viruses in gene therapy. Students also learn to read and critically evaluate virology-related papers published in the primary literature.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 541S Bacteria and Bacterial Infections 2.0 Credits

Introduces fundamental concepts in bacteria and the infections they cause, including microorganism structure and replication, pathogenesis and treatment.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 542S Mycology and Fungal Infections 2.0 Credits

Introduces basic aspects of the biology of fungi and fungal infections, such as fungal cell structure, function, replication, pathogenesis, and their impact on humans. Antifungal agents; mode of action and molecular mechanism of resistance are also discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 543S Parasitology and Parasitic Diseases 2.0 Credits

Introduces basic aspects of the biology of parasites and parasitic infections, including microorganism structure, replication and pathogenesis, as well as public health and economic impact of parasitic infections. Antiparasitic drug and vaccine development are also discussed. Primary literature is also read and discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 545S Introduction to Infectious Diseases 4.0 Credits

Introduces known human pathogens that cause infectious diseases of major public health importance. Bacterial, fungal, parasitic, and viral pathogens are comprehensively overviewed, with an emphasis on their transmission, pathogenesis, clinical presentation, prevention, and treatment. Learning materials and approaches are derived from the scientific literature and the medical school curriculum. Offers opportunities for primary literature discussions and evaluation of clinical case studies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 527S [Min Grade: B]

MIIM 550S Biomedicine Seminar 3.0 Credits

A seminar series on diverse topics in biomedicine, public health, technology commercialization and entrepreneurship. Faculty and students meet in an informal way to discuss selected subjects, hear guest speakers or discuss scholarly articles and current news. The topics will vary by session, and range from current events in the biomedical industry, to various aspects of new product development, commercialization, entrepreneurship, and/or technical aspects of new discoveries.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 3 times for 12 credits

MIIM 555S Molecular Mechanisms of Microbial Pathogenesis 3.0 Credits

An advanced graduate course involving presentation and in depth discussion of recent and historical literature on the molecular and cellular mechanisms of bacterial pathogenesis. Prerequisite: a previous bacterial pathogenesis or medical microbiology course.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 571S Cell and Gene Therapy 1 3.0 Credits

Explores the concepts of cell and gene therapy including types and strategies; choice of the therapeutic target; viral and non-viral vectors; barriers to gene delivery; ethics; genotoxicity and immunological considerations for cell and gene therapy; and managing adverse results from concept to delivery, including alternative preclinical models.

Developing a therapeutic from preclinical to market, and case studies of cell and gene therapies on the market will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 572S Cell and Gene Therapy 2 3.0 Credits

Explores gene therapy strategies such as gene silencing, gene editing, stem cells and tissue regeneration, autologous cell therapy, and gene therapy for cancer, ocular, neurodegenerative, metabolic, liver, cardiovascular, skeletal muscle, and other conditions. The future of cell and gene therapy including the current status and limitations of gene therapy treatments will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 571S [Min Grade: B]

MIIM 573S Regulatory Affairs for Cell and Gene Therapy 1 3.0 Credits

Explores cell and gene regulatory affairs from pre-clinical IND-enabling studies to product licensure. The course is designed to introduce the historical basis for and continuing evolution of gene therapy regulations in response to patient safety events, emerging technologies, and product type. Content will be presented to educate students on the overall product development and approval process, including research and analysis methods, regulatory agency interactions, and the CTD (Common Technical Document) structure.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 574S Regulatory Affairs for Cell and Gene Therapy 2 3.0 Credits

Explores cell and gene regulatory affairs from product licensure and into post-approval life cycle management, post-approval change reporting categories, accelerated approval mechanisms, managing agency inspections, and international market requirements for cell and gene regulatory affairs. Specific focus will be on developing skills in formulating regulatory strategies from a scientific, risk-based approach by exploring hypothetical scenarios a regulatory affairs professional may encounter.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 573S [Min Grade: B]

MIIM 600S Microbiology and Immunology Thesis Research 1.0-9.0 Credit

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department, Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MIIM 604S Special Topics in Virology 3.0 Credits

Emphasis is directed toward the study of mammalian virus-host interaction at the cellular level.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 605S Experiential Learning 2.0-6.0 Credits

Provides practical experience in various areas related to biomedicine (e.g., research, business, entrepreneurship, law, digital media, public health). Students participate in planning and selecting the type of experiential learning that best fits their career plans and professional needs.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 606S Microbiology and Immunology Seminar 1.0 Credit

Faculty and students meet in an informal way to discuss selected subjects, hear guest lecturers or explore topics related to the biomedical sciences of interest to the group.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MIIM 607S Immunology II 3.0 Credits

This is an advanced course in immunology covering various aspects of contemporary cellular and molecular biology. It consists of some didactic sessions followed by reading and discussion of current literature. The prerequisites for this course are a graduate level course in immunology and permission of the instructor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 613S Emerging Infectious Diseases 2.0 Credits

In depth discussion of the emergence and spread of infectious agents, including species jumping, mutation and global transport. Learn about recently emerged pathogenic agents as well as possible future outbreaks or reemergence of viral, bacterial, parasitic and novel agents.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 615S Experimental Therapeutics 2.0 Credits

In-depth discussion of experimental and emerging therapies for human disease, with emphasis on infectious disease. Analysis of key developments and approaches in drug design representative of experimental therapeutics is presented, with inclusion of pharmacologic, regulatory and basic science perspectives.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 620S Advanced Omics 3.0 Credits

Recent advances in molecular biology and computational achievements have generated an explosion of data that surveys biological processes on a massive scale. Collectively referred to as 'omics scale data, these techniques have revolutionized our ability to explore complex phenotypes in microbiology & immunology. This course covers the history, application, and computational analysis of 'omics scale data and provides hands-on analysis experience.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 517S [Min Grade: B]

MIIM 621S Biomedical Research I 2.0-3.0 Credits

Provides hands-on research experience in the broad field of molecular medicine. Student projects will focus on basic, translational, or clinical biomedical research. Host laboratories will be chosen on the basis of their research, as well as student interests and future career goals. While emphasis will be placed on laboratories within Drexel University, research may also be completed in laboratories at other academic institutions or at sites outside of Drexel University involved in molecular medicine research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 6 credits

MIIM 622S Biomedical Research II 2.0-3.0 Credits

Provides hands-on research experience in the broad field of molecular medicine. Student projects will focus on basic, translational, or clinical biomedical research. Host laboratories will be chosen on the basis of their research, as well as student interests and future career goals. While emphasis will be placed on laboratories within Drexel University, research may also be completed in laboratories at other academic institutions or at sites outside of Drexel University involved in molecular medicine research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 6 credits

MIIM 625S Advanced Molecular Virology 3.0 Credits

Provides a comprehensive overview of the molecular aspects of viral pathogenesis and viral-host interactions, using various viral families and selected viruses as models. Builds upon basic concepts introduced in MIIM 512S Molecular Pathogenesis I or MIIM 540S Viruses and Viral Infections.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 630S Advanced Molecular Biology 2.0 Credits

Advanced level course (lecture and discussions) of topics of current interest in the area of molecular biology and molecular genetics. Topics vary in different years and may include aspects of both lower eukaryotic systems and mammalian systems. May be repeated once for credit.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 2 credits

MIIM 631S Biomedical Innovation Development and Management 5.0 Credits

An interdisciplinary capstone course. Students select a biomedical technology, and apply concepts and skills learned throughout the program to develop a full-length technology development and commercialization plan. Students are expected to conduct significant independent research throughout the course to complete this project.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 518S [Min Grade: B] and MIIM 519S [Min Grade: B]

MIIM 640S Effective Teaching Skills 1.0 Credit

This eight-week course is designed to help doctoral candidates in the biomedical science become better teachers. Participants are introduced to behaviors and techniques used by effective teachers and are given the opportunity to make several presentations. Each presentation is videotaped and positive feedback is given to the presenter by other members of the class.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 645S Biomedical Career Explorations 2.0 Credits

This is an open forum for students, faculty and guest speakers to discuss career paths in biomedicine. It will explore traditional biomedical careers such as academia, biotechnology and private industry, as well as less traditional career paths such as bioentrepreneurship, intellectual property law, biomedical communications and media, among others. Students will also have an opportunity to work on their resumes and other job-readiness skills.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 3 times for 8 credits

MIIM 650S Research Internship in Molecular Medicine 4.0-6.0 Credits

Provides laboratory-based or other forms of research experience in the broad field of molecular medicine. Student projects will focus on basic, translational, or clinical biomedical research. Internship hosts will be chosen on the basis of their research, as well as student interests and future career goals. Students will also gain experience with analyzing data that they help to generate or that they gather from the literature, as well as presenting that information in written and oral formats. Internships are primarily completed within laboratories at Drexel University. Requests for off-site internships and enrollment for less than 6 credits require course director approval.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 12 credits

MIIM 651S Research Internship in Immunology 4.0-6.0 Credits

Provides laboratory-based or other forms of research experience in the field of immunology. Student projects will focus on basic, translational, or clinical biomedical research. Internship hosts will be chosen on the basis of their research, as well as student interests and future career goals. Students will also gain experience with analyzing data that they help to generate or that they gather from the literature, as well as presenting that information in written and oral formats. Internships are primarily completed within laboratories at Drexel University. Requests for off-site internships and enrollment for less than 6 credits require course director approval.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 12 credits

MIIM 652S Research Internship in Infectious Disease 4.0-6.0 Credits

Provides laboratory-based or other forms of research experience in the field of infectious disease. Student projects will focus on basic, translational, or clinical biomedical research. Internship hosts will be chosen on the basis of their research, as well as student interests and future career goals. Students will also gain experience with analyzing data that they help to generate or that they gather from the literature, as well as presenting that information in written and oral formats. Internships are primarily completed within laboratories at Drexel University. Requests for off-site internships and enrollment for less than 6 credits require course director approval.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 12 credits

MIIM 653S Clinical Correlations in Infectious Disease 3.0 Credits

This course will serve as an advanced learning experience to correlate the basic aspects of infection with the clinical aspects of diagnosis and treatment. The course will introduce concepts that relate to understanding how the clinical aspects of infectious diseases can be translated into basic research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 545S [Min Grade: B]

MIIM 654S Clinical Correlations in Immunology 3.0 Credits

This course will serve as an advanced learning experience to correlate the basic aspects of immunology & immunopathology with the clinical aspects of diagnosis and treatment. The course will introduce concepts that relate to understanding how the clinical aspects of abnormal immune responses and immunodeficiencies can be translated into basic research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 655S Emerging Biomedical Interventions for Human Disease 2.0 Credits

An advanced course that focuses on emerging biomedical interventions for human diseases. Includes in-depth discussions and analyses of experimental and emerging approaches for treating or preventing disease and infections by human pathogens. Students learn about important aspects of each featured experimental therapeutic or preventative approach, including its premise, key developmental milestones, current applications, and future potential. Students are also guided through critical analyses of these approaches and technologies to identify significant strengths and weaknesses.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MIIM 660S Current Concepts in Molecular Medicine I 3.0 Credits

This advanced course provides topical information that builds on the comprehensive basic knowledge underlying molecular medicine, as taught in the course sequence of Fundamentals of Molecular Medicine I and II (MIIM-530, and -531).

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: MIIM 531S [Min Grade: B] (Can be taken Concurrently) and MIIM 530S [Min Grade: B]

MIIM 9754S Microbiology Research 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MIIM T580S Special Topics in Microbiology & Immunology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MIIM T680S Special Topics in Microbiology & Immunology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MMS Prog. - Masters in Med. Science

Courses

MMSP 501S Research in Medical Science I 6.0 Credits

Research in Medical Science is a two-semester sequence that partners with MMSP-503S and MMSP-504S to extend and enrich the research experience for second year MMS students. Students will engage in original, hands-on research under the guidance of a mentor scientist. A Research Proposal will be developed in collaboration with the Research Mentor and submitted for timely review and approval to the Oversight Committee, comprising faculty within the Graduate School. Once approved, the student will pursue the research project proposed under the direct supervision of their research mentor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 12 credits

MMSP 502S Research in Medical Science II 6.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MMSP 503S Research Seminar I 3.0 Credits

Research seminar is a two-semester sequence that partners with MMSP-501-S to extend and enrich the research experience for MMS students. In seminar, students will have a forum to discuss their ongoing research projects in a rigorous but supportive environment. Students will be challenged to present their research in several formats as described below. Further, students will be expected to provide constructive but critical peer-reviews of each other's in-class presentations.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 9 credits

MMSP 504S Research Seminar II 3.0 Credits

Research seminar is a two-semester sequence that partners with MMSP# 502#S to extend and enrich the research experience for MMS students. In seminar, students will have a forum to discuss their ongoing research projects in a rigorous but supportive environment. Students will be challenged to present their research in several formats. Further, students will be expected to provide constructive but critical peer-reviews of each others in-class presentations.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 9 credits

Prerequisites: MMSP 503S [Min Grade: C]

MMSP 505S Introduction to Biomedical Research 2.0 Credits

Introduction to Biomedical Research is a 2-credit research course that permits the MMS student to extend their research experience under the tutelage of their research mentor. Fall-starting students would be able to begin their research experience in the spring of their first year. Spring-start MMS students would be able to begin their research experience fall of their second semester. The course provides students with a structured, but limited, introduction to their lab of choice. The student can use this time to develop their research proposal and begin learning necessary techniques required for their research studies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MMSP 510S Lab Tech In Bioc & Molec Biol 2.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MMSP 520S Medical Pathology I 6.0 Credits

This course serves as a bridge between the basic sciences and clinical material. The course material enables the student to learn the language of human disease and provides a knowledge base relating to the mechanisms of disease and the approach to a pathologic diagnosis. Following several introductory sessions, where basic pathological processes are introduced, the course is taught in an organ system approach.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MMSP 521S Medical Pathology II 4.0 Credits

The purpose of the course in Pathology and Laboratory Medicine is to serve as a bridge between the basic sciences and clinical material. With this in mind, the course attempts to enable the student to recognize and understand the diseases that are encountered in clinical practice.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 8 credits

Prerequisites: MMSP 520S [Min Grade: C]

MMSP 530S Selected Topic in Pharmacology 7.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MMSP T580S Special Topics in Medical Science 1.0-6.0 Credit

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Molecular & Cellular Bio & Genetics

Courses

MCBG 501S MCBG 1st Lab Rotation 4.0 Credits

First rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 502S MCBG 2nd Lab Rotation 4.0 Credits

Second rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 503S MCBG 3rd Lab Rotation 4.0 Credits

Third rotation. Guided research is conducted on a part-time basis for two or three week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 506S Advanced Cell Biology 2.0 Credits

This course is designed to introduce the student to current research topics and latest developments in the area of Cell Biology. Topics may include ion transport, signal transduction and apoptosis, cytoskeleton, protein translocation and sorting, protein kinases and phosphatases, cell motility and membrane biogenesis. Topics may vary in different years.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 510S MCBG Journal Club 1.0 Credit

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 15 times for 100 credits

MCBG 512S MCBG Journal Club 1.0 Credit

This course is designed to have students read and critically analyze recent research in the fields of molecular biology, cell biology, and genetics. Each week a student will choose a high-impact paper of broad significance published within the last two years for presentation. All students are expected to have read the paper prior to the meeting and will participate in a roundtable discussion of the data presented in the figures and the authors' conclusions. Various faculty members from the MCBG program will serve as moderators or facilitators during the group discussion. This course is required for students in the MCBG MS and PhD programs until permission for thesis writing is granted.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MCBG 513S Molec & Cell Biology Seminar 1.0 Credit

Faculty and students meet in an informal way to discuss selected subjects, hear guest lectures or explore topics related to the biomedical science of interest to the group.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MCBG 514S Cell Cycle and Apoptosis 2.0 Credits

The main goal of this advanced course is to provide an in-depth molecular understanding of the principles of cell growth and cell death. This course will build upon basic information taught in the Molecular Cell Biology and Genetics Module of the Biomedical Sciences first year graduate core curriculum and intended for advanced graduate students (2nd yr. and higher) looking for further understanding in the fields of cell cycle and apoptosis. This course will also emphasize advanced topics and methods not in the core.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 515S Techniques in Molecular & Cell Biology & Genetics 2.0 Credits

This course is designed to teach students essential strategies and techniques in Molecular and Cellular Biology and Genetics, with a goal of preparing students to understand the techniques used in modern primary literature and their own research. The course is structured around a combination of readings, lectures, individual exercises and small group exercises in a problem-oriented fashion. The course will emphasize practical applications of applied Molecular and Cellular Biology and Genetics, including experimental design and choice of techniques.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MCBG 600S MCBG Thesis Research 1.0-9.0 Credit

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department, Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 15 times for 150 credits

MCBG 601S MOLE & CELL BIO & GENE SEMINAR 1.0 Credit

Faculty and students meet in an informal way to discuss selected subjects, hear guest lectures or explore topics related to the biomedical science of interest to the group.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 10 times for 50 credits

MCBG T580S Special Topics in Molecular and Cell Biology and Genetics 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MCBG T680S Special Topics in Molecular and Cell Biology and Genetics 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Molecular Basis of Cancer

Courses

CMCA 500S Foundations in Bioscience 1 3.0 Credits

Biology ultimately depends upon the molecular processes that occur within cells. This course introduces you to the foundational concepts in molecular and cell biology and biochemistry. We begin with the key players: The biomolecules used to construct and operate cells. We next consider the Central Dogma, which reveals how the cell builds new molecules (and thereby allows it to copy itself). Finally, we cover the basics of cell biology, providing context in which students can understand the stage upon which these processes play out. These concepts provide a fundamental knowledge base that will support learning at the cutting edge of bioscience.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA 501S Foundations in Bioscience 2 3.0 Credits

Biology ultimately depends upon the molecular processes that occur within cells. This course continues the introduction of foundational concepts in molecular and cell biology and biochemistry begun in CMCA 500S. We begin by exploring cell biology, the movement of cellular constituents and of entire cells, how cells age, as well as how they fuel and renew themselves. Next, we apply our fundamental knowledge to questions relating to inheritance and disease. Finally, we turn our attention to technology, to provide insights into the techniques used to generate the fundamental knowledge that we study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA 510S Introduction to Cancer Biology 2.0 Credits

This course provides a broad-based introduction to the field of cancer biology. The course focuses on mutations in enzymes that alter activity, modulation of transcription and translation in cancer cells, defects in DNA damage repair pathways, rewiring of signal transduction pathways, and alterations in cell cycle regulation. The majority of the course is discussion-based and focuses on analysis of primary literature, with an emphasis on training students in critical reading of primary scientific research reports. Topics will parallel those covered in the Foundations in Bioscience 1 course, but from a cancer biology-relevant perspective.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA 520S Molecular Basis of Cancer 3.0 Credits

The goal of this course is to promote learning and intellectual development in the area of cancer biology. This course will provide a comprehensive overview of the biology and pathology of cancer. This course will educate students on the principles of cancer biology, including the genetic and molecular changes normal cells undergo during transformation into malignant cancer cells. We explore the role of mutations in cancer cells, and how they lead to the dysregulation of essential biological properties like programmed cell death, growth and migration. We compare classical with newer treatment strategies such as targeted therapies and immune therapies. We also explore the challenges associated with preventing and diagnosing cancers.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA 551S Control of the Cell Cycle and Cell Death 2.0 Credits

This course focuses on recent advances in our understanding of the Cell Cycle and Cell Death. Control of the cell cycle is essential for proper cell proliferation. Similarly, controlled cell death, or apoptosis, is important for removing cells that are sick or defective. Disfunction of these processes is fundamental to many mechanisms of cancer development and clinical treatment. The course is run as a discussion-based format that focuses on primary literature pertaining to breakthroughs or new methods related to Cell Cycle and Cell Death.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA 552S Experimental Approaches in Cancer Research 2.0 Credits

To truly understand primary research reports, you must have some understanding of the methods used. In this course, you will learn about widely used bench-based research methods that are useful for researchers studying the molecular basis of cancer. These methods will be covered using a combination of lectures, study exercises, and first-person demonstrations of the methods in action. The research methods covered include bioinformatic, molecular, cellular, and animal models. To allow students to tailor the course to their specific interests and needs, the course is structured around a menu of modules in which different methods are presented.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CMCA T580S Special Topics in the Molecular Basis of Cancer 1.0-5.0 Credit

Course consists of content that faculty or students have requested to meet special needs or interests. Content is variable and offered on a one-time, infrequent, or trial basis. Actual course description will be determined by the instructor. May be repeated up to 4 times for credit if topics vary.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Neurology

Courses

NEUL 8012S Neurology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8013S NEUROLOGY - 3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8014S NEUROLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8015S Neurology Clerkship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8212S Acute Stroke/NeuroIntensive 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8214S ACUTE STROKE/NEUROINTENSIVE CA 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8222S CLINICAL NEUROLOGY - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8224S Clinical Neurology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8234S NEUROLOGY SUBINTERNSHIP 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

NEUL 8242S Outpatient Neurology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 8244S Outpatient Neurology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL 824S CLINICAL NEUROLOGY 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8254S COGNITIVE NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8258S Cognitive Neurology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8318S RESEARCH-DEMENTIA & AGING-8WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8362S Principles in Neurology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8412S EPILEPSY SUBSPECIALTY - 2 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8414S EPILEPSY SUBSPECIALTY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8422S Epilepsy and EEG 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**NEUL 8424S Epilepsy and EEG 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8512S MOVEMENT DISORDER - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8514S MOVEMENT DISORDER 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8612S NEUROMUSCULAR DISORDERS - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8614S Neuromuscular Disorders 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**NEUL 8714S NEURO - OPHTHALMOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8814S PAIN MANAGEMENT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 8912S CHILD NEUROLOGY - 2 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**NEUL 8914S CHILD NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9092S Elective - Neurology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9094S ELECTIVE - NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9098S ELECTIVE - NEUROLOGY 8WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9754S RESEARCH - NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9756S RESEARCH - NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9758S RESEARCH- NEUROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**NEUL 9764S RESEARCH - NEUROEPIDEMIOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Neuroscience

Courses

NEUR 500S Statistics for Neuro/Pharm Research 2.0 Credits

This course will provide hands on instruction in how research data are managed and analyzed in neurobiological research. Studies will acquire a basic statistical knowledge with emphasis on application to data sets similar to what they can expect to encounter in their thesis research. Instruction in the use of statistical programs will be included.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

NEUR 501S Neuroscience 1st Lab Rotation 4.0 Credits

First laboratory rotation. Guided research is conducted on a part-time basis for two or three 10-16 week periods. Rotations are generally conducted during fall, spring and summer of the first and second years. An oral presentation highlighting the background, rationale, methods, results and discussion of the research activity is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 502S Neuroscience 2nd Lab Rotation 4.0 Credits

Second laboratory rotation. Guided research is conducted on a part-time basis for two or three 10-16 week periods. Rotations are generally conducted during fall, spring and summer of the first and second years. An oral presentation highlighting the background, rationale, methods, results and discussion of the research activity is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 503S Neuroscience 3rd Lab Rotation 4.0 Credits

Third laboratory rotation. Guided research is conducted on a part-time basis for two or three 10-16 week periods. Rotations are generally conducted during fall, spring and summer of the first and second years. An oral presentation highlighting the background, rationale, methods, results and discussion of the research activity is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 505S ADVANCED MOLECULAR NEUROBIOLOGY. 1.0 Credit

This is a graduate course aimed to discuss basic concepts and state-of-the-art techniques in molecular neurobiology. The course also serves as a forum for all members of the Graduate Program in Neurobiology, including faculty, graduate and post-doctoral students, and technical staff, to discuss recent developments in molecular neurobiology. The class meets once a month. Some meetings focus on basic concepts and recent findings in the field, whereas others examine novel biotechniques. The discussion is led by a speaker, who in most cases is a faculty member from the Department of Neurobiology and Anatomy. Occasionally, specialists from other institutions are invited to speak on a particular subject. Students taking the course for credits will be asked to lead one section in a related subject of their choice. Full attendance is required.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 508S Graduate Neuroscience I 2.0 Credits

This course is offered to incoming first year Neuroscience graduate students and covers the basic tenets of Developmental Neuroscience as well as providing a historical context to the progression of Neuroscience as a field of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 511S Advanced Cellular and Developmental Neuroscience 1.0 Credit

This course provides didactic teaching and in-depth discussion of topics in cellular and developmental neuroscience. Topics will emphasize the most recent and contemporary issues in the field.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 512S Advanced Systems and Behavioral Neuroscience 1.5 Credit

This course provides an in-depth understanding of cellular and systems neurophysiology. Topics include: basic mechanisms, emergent network activities, sensory processing, and models of learning and memory. May be repeated once for credit.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 1 times for 3 credits

NEUR 520S Neurobiology Topics I 2.0 Credits

Neurobiology topics is a "journal club" course required of all Neuroscience graduate students beginning in the second year. Students, faculty and staff from Neuroscience and other programs are also encouraged to attend as registered or non-registered participants. The course is offered in the Fall and Spring semesters. Students choose topics of interest and a faculty member conducting research in this field is invited to introduce the topic, either from Drexel University or another local university. Students then present research papers in this area to the class to refine their presentation skills, practice critical thinking, and learn about recent research. Recent topics chosen by the class have included: Analysis of Somatosensory Systems, Neuroimmunology, Neurodegenerative Diseases, and Axon Guidance.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

NEUR 521S Neurobiology Topics II 2.0 Credits

This journal club style course is designed as an exchange of scholarly information through presentation and group discussion of published novel, impactful, and/or controversial neuroscience research that is of interest. It will cover the breadth and depth of neuroscience including molecular, cellular and systems neuroscience.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

NEUR 600S Neuroscience Thesis Research 9.0 Credits

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department, Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

NEUR 602S Medical Neuroscience 6.0 Credits

This course will provide extensive information regarding structure and function relationships in the central nervous system. It will also provide introductory information on neurophysiology, cellular neuroscience and systems neuroscience topics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 607S INTEGRATED NEUROSCIENCE 4.0 Credits

This is a core course required of all graduate students in the Neuroscience Program. The prerequisite is completion of Medical Neuroscience. The course meets twice weekly during the fall semester for 2 hour sessions, which include a mix of lecture and discussion. The course emphasizes critical evaluation of experimental methods used for investigation problems in the organization and function of the central nervous system. One major goal of the course is to teach the students a system approach to analyzing the CNS control of behavior and physiology. The topics that are chosen to illustrate these principles of organization include sensorimotor integration; CNS development; neurochemical anatomy: sites and mechanism underlying regulation if ingestion, responses to stress and sexual behavior: central mechanisms of award, learning and memory: and recovery of function after CNS damage. An important second goal is to relate activity at the systems level to underlying cellular and molecular mechanisms. These strategies discussed throughout the course but especially in development; genetic basis of psychopathology: CNS injury and recovery; and use of molecular techniques for modulating behavior. The students are required to write four papers covering information from four separate blocks of the course and one final paper comparing the uses of transgenic knockouts, inducible knockouts and antisense approaches for studying a system of the student's choice. These papers are read by the faculty and defended by the students.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 0 times for NaN credits

NEUR 609S Graduate Neuroscience II 2.0 Credits

This course will cover aspects of cellular and molecular neuroscience in the context of developmental neurological diseases, traumatic injury to CNS and neurodegenerative diseases.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 610S Graduate Neuroscience III 4.0 Credits

There are 2 modules covering cellular and circuit neurophysiology, and Systems and Behavioral neuroscience. The lectures given by experts in the field build on the basics covered in Graduate Neuroscience I and provide in depth detail on aspects of cellular physiology and behavioral studies. Lectures cover fundamental concepts, experimental design, data interpretation and analysis and identify gaps in the respective fields.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 611S Advanced Neuroscience 1.0 Credit

In this course, students will research a topic in systems and behavioral neuroscience that is outside of the immediate area of their thesis project. Students will be guided through integrating this knowledge into an original review paper. Therefore, in addition to learning about a topic related to (yet distinct from) their thesis project, they will learn how to write and critique review papers for a professional scientific journal, going through the submission, editorial, and revision processes. This course will consist of lectures, discussions, and one-on-one meetings.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 615S ADVANCED SPEC. TOPICS IN NEURO 1.0-3.0 Credit

Graduate students present current research papers in the general areas of systems and behavioral neurobiology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 634S Motor Systems 4.0 Credits

This is an advanced course on Motor Control and the experimental and computational methods used. The goal is to provide a didactic overview of motor control that spans from the theoretical and engineering underpinnings to the experimental techniques and current literature. The course meets twice weekly during the semester offered for 2 hour sessions, which include a mix of lecture and discussion. The course emphasizes critical evaluation of experimental methods and quantitative tools used for investigation of motor control problems and the organization and function of the central nervous system motor circuitry. We will cover the seminal experiments, theories and literature. The course examines motor control in all its aspects and provides hands on technical training in working with movement and neurophysiol.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

NEUR 8214S NEUROSCIENCE SENIOR ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUR 9096S ELECTIVE - NEUROSCIENCE 6WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUR 9750S RESEARCH - NEUROSCIENCE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUR 9754S RESEARCH - NEUROSCIENCE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUR T580S Special Topics in Neuroscience 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

NEUR T680S Special Topics in Neuroscience 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Neurosurgery

Courses

NESU 8212S NEUROSURGERY - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

NESU 8213S Neurosurgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 8214S NEUROSURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 8222S ELEC./NEUROSURG PRIMCARE 2WS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

NESU 8224S NEUROSURG FOR PRIM CAREGIVERS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

NESU 8226S NEUROSURG FOR PRIM CAREGVR.6WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 8272S NEUROSURGERY-PEDS /ADULT- 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

NESU 8314S Neurosurgery Subl-Cranial 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 8414S Neurosurgery Subi-Spinal 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 854S NEUROSURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 9094S ELECTIVE - NEUROSURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 9750S Research - Neurosurgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NESU 9754S RESEARCH - NEUROSURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Obstetrics & Gynecology

Courses

OBGY 795S Obstetrics and Gynecology: Post Year 1 Research Elective 0.0 Credits

OBGYN research experience taken after completion of first year of medical school.

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8010S OBSTETRICS & GYNECOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8015S OB/GYN Clerkship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8112S AMBULATORY OB/GYN - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

OBGY 8114S Ambulatory OB/GYN 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8122S Amb GYN Infect Dis 1.0 Credit

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8124S Amb GYN-Infectious Disease 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

OBGY 8154S PRIMARY OB/GYN 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8172S GENERAL GYN - 2 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8174S Genery Gynecology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8212S SUBINTERNSHIP IN OB/GYN-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBGY 8214S OB/GYN Subinternship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBYG 8232S GENERAL OB/GYN - 2 WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBYG 8234S General OB/GYN 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8264S Gynecological Subinternship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8274S Obstetrical Subinternship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8312S Maternal Fetal Medicine-2 Wks. 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8314S MATERNAL/ FETAL MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8322S PERINATAL MEDICINE - 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBYG 8324S PERINATAL MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBYG 8334S ANTENATAL FETAL ASSESSMENT 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 835S REPRODUCTIVE ENDOCRIN/INFERT 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8411S REPROD ENDOCRIN/INFERT- 1 WEEK 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8412S REPROD ENDOCRIN/INFERT - 2WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8413S REPROD ENDOCRIN/INFERT- 3WEEKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8414S REPRODUCTIVE ENDOCRIN/INFERT 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8504S OB/GYN Subinternship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8514S PELVIC FLOOR DISORDERS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8612S Urogynecology* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8614S UROGYNECOLOGY 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8712S Gynecology Oncology-2 Wks. 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8713S Gynecology Oncology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8714S Gyn Oncology Subinternship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8774S Women's Health - Clinical 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 8814S GYN MINIMALLY INVASIVE SURGERY 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBYG 9092S Ob/Gyn Elective* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 9093S ELECTIVE-OB/GYN- 3WKS. 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBYG 9094S ELECTIVE - OB/GYN 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 9098S ELECTIVE - OB/GYN - 8WKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 940S MATERNAL/ FETAL MEDICINE 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 9744S ELEC-CLINICAL RESEARCH 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OBYG 9750S RESEARCH-OB/GYN 10 WEEKS 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 0 times for 0 credits

OBGY 9752S RESEARCH-OB/GYN -2WKS 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**OBGY 9754S Research - OB/GYN 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OBGY S514S Female Pelvic Med&Recon Surg 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**OBGY S814S High Risk Obstetrics/MFM 0.0 Credits**

This elective is designed for the student who has decided on a career in obstetrics and gynecology. It affords the opportunity to follow high risk pregnancies from initial prenatal assessment and counseling throughout pregnancy and intrapartum course. The Maternal Fetal Special Care Unit is a unique intensive care unit designed to handle all medical, surgical, and obstetric complications of pregnant women and their fetuses.

College/Department: College of Medicine**Repeat Status:** Can be repeated multiple times for credit**OBGY S824S Breastfeeding Elective 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OBGY S834S Ultrasonography 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OBGY S844S Gyn Cancer Subinternship 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OBGY S852S Ultrasound in OBGYN*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OBGY S864S Obstetrics and Gynecology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Office of Medical Education

Courses

OMED 8010S Intersession I* 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8012S Transition to Clinician*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8014S Transition to Clinician*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8016S Clerkship Fundamentals*** 0.0 Credits**

This six-week course serves as an introduction to the clinical clerkships and seeks to equip students with the basic skills needed to succeed in the clinical years. This course will reinforce clinical skills including history-taking, note-writing and physical exam, as well as introduce broader topics relevant to modern clinical practice, such as usage of evidence-based medicine, management of psychosocial aspects of patient care, and practical approaches to common clinical conditions. This course will also address topics unique to being a clerkship student, including the need to balance studying, participation in clinical care, and emotional well-being.

College/Department: College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8212S TEACH COMMUNICATION SKLS-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8222S TEACHING CLIN SKILLS EXAMS-2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8232S TEACH HX TAKING&PHYS EXAMS-2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8242S ED COMMUN-COMP/SCHOLARLY-2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8252S EVIDENCE BASED MEDICINE-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8264S ED COMMUN-INTERPERSONAL SKILLS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8272S ED COMMUN-COMP/SCHOLARLY-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8282S TEACHING ASSIST TUTOR PRGM.2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8284S ACAD.ELECT MED ED-PBLFAC-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8292S ACAD.ELECT MED ED-PBLFAC-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**OMED 8312S ACAD ELECT/CLINICAL SKILLS-2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits

OMED 8322S TEACH CLIN SKILLS YR2 PIL-2WKS 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8334S Independent Scholarship Elec. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**OMED 8342S Teach Clin Skills to PIL*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8412S MEDIA &PUBLIC HLTH ISSUES -2WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**OMED 8413S MEDIA & PUBLIC HEALTH ISSUES 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8414S CHANNEL 6 HEALTH CHECK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**OMED 8432S Advanced Trial Advocacy- Law and Medicine 0.0 Credits**

This course will consist of 7 weeks of 2-hour substantive demonstration/ performance classes that will take place from 6-8pm on Tuesdays. ATA Law and Medicine utilizes a mixed classroom model bringing together medical students and law students to facilitate analysis of medical malpractice cases from both the legal and medical perspectives. In the 2-hour class, students will learn how to analyze medical malpractice cases and prepare medical witnesses for depositions and trial. The topics of the course are based on advanced trial advocacy tactics, including opening and closing statements, direct, cross and redirect examination of lay and expert witnesses, and witness preparation.

College/Department: College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8462S MINI MEDICAL SCHOOL-2 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8500S MD/MBA PRACTICUM - 12 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8522S Simulation Elective*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8632S Projects in Med Education*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8644S Proj in Med Ed: Curriculum Review 0.0 Credits**

This course will allow students the opportunity to review medical school curriculum through a lens of bias. Students will participate in a training session to understand types of bias and how to use the SUNY Upstate Bias Checklist. Additional training will be done through a facilitated review with feedback. Students will then be assigned to review specific curricular content using the checklist. Each student will have a faculty advisor throughout the rotation. At the conclusion of the rotation, students will present their findings (trends in bias; recs to remediate bias, etc.) to the group.

College/Department: College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8682S Academic Admin. Elec-2wks. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8714S GYNECOLOGY ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8752S Translational Research*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8812S Admin Perspective for Phys*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 8822S Healthcare Administration*** 0.0 Credits****College/Department:** College of Medicine**OMED 9092S MEDICAL EDUC ELECTIVE-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 9094S MEDICAL EDUC ELECTIVE - 4 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 9096S MEDICAL EDUC ELECTIVE - 6WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED 9752S APPL OF RESEARCH METH - 2 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**OMED T980S Special Topics in Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit

Orthopedics

Courses

ORTH 3104S METABOLIC BONE DISEASE & AMP; 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

ORTH 795S Orthopaedics: Post Year 1 Research Elective 0.0 Credits

Orthopaedics research elective taken summer after year 1.

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8212S Orthopaedic Surgery* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8213S Orthopaedic Surgery - 3wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8214S Orthopaedic Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8216S ORTHOPAEDIC SURGERY - 6WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8222S GENERAL ORTHOPAEDICS - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8224S General Orthopaedics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8332S PED ORTHOPEDIC SURG-2WKS (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

ORTH 8334S Pediatric Orthopaedic Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8414S SPINAL DISEASE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8432S Ortho/Podiatric Surgery* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8434S Orthopaedics/Podiatric Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 8512S SPORTS MEDICINE - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

ORTH 8514S SPORTS MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 9091S Elective-Orthopaedics* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

ORTH 9092S ELECTIVE-ORTHOPEDICS- 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

ORTH 9094S ORTHOPEDICS ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 9752S Research-Orthopaedics* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 9754S RESEARCH - ORTHOPAEDICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH 9758S RESEARCH-ORTHOPAEDICS 8WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Otolaryngology

Courses

OTO 621S Rhinosinusology 3.0 Credits

This course introduces the student to anatomy and physiology of the nose, and a variety of techniques for evaluation of the nose and sinuses. Direct examination, nasal endoscopy, open sinus surgery and functional endoscopic sinus surgery are stressed. Variations and infectious diseases involving those in paranasal sinuses are included.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

OTO T680S Special Topics in Otolaryngology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

OTO T780S Special Topics in Otolaryngology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Otolaryngology

Courses

OTOL 8212S Otolaryngology * 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 8213S Otolaryngology - 3wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 8214S Otolaryngology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 8332S Pediatric Otolaryngology*** 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 8334S Pediatric Otolaryngology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 9092S OTOLARYNGOLOGY-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 9094S OTOLARYNGOLOGY ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OTOL 9752S RESEARCH-OTOLARYNGOLOGY-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

OTOL 9754S RESEARCH- OTOLARYNGOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

Pathologists Assistant

Courses

MSPA 500S Gross Anatomy 5.0 Credits

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 which is designed for eventual autopsy evisceration and subsequent dissection, as well as surgical pathology gross examinations.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 15 credits

MSPA 510S Laboratory Management 2.0 Credits

The organization and function of an Anatomic Pathology laboratory is investigated to include ordering supplies, financial management, computerization, laboratory safety, billing, personnel managements, organizational compliance (JCAHO, CAP, OSHA) and quality assurance.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 4 credits

MSPA 520S Medical Terminology 3.0 Credits

Study of the etymology of medical and surgical terms with emphasis on the principles of word analysis, construction, and evolution.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPA 530S Biomedical Photography 4.0 Credits

Basic introductory photography course with special emphasis on macro, close-up and photomicrographic techniques. Special techniques relative to the biomedical field, such as digital imaging and basic radiographic techniques are explored.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 8 credits

MSPA 540S Histotechnology I 3.0 Credits

Basic histology and histochemistry techniques are covered through formal lecture and laboratory experience.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 6 credits

MSPA 541S Histotechnology II 3.0 Credits

Advanced histology and histochemistry techniques are covered through formal lecture and laboratory experience. This course is a continuation of MSPA 540S.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 6 credits

Prerequisites: MSPA 540S [Min Grade: C]

MSPA 550S Applied Anatomic Pathology 4.0 Credits

The course is designed to bring the students through the clinical aspects of chart review as well as academic autopsy and surgical pathology practices.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 8 credits

MSPA 560S Medical Ethics 2.0 Credits

"MedEthEx OnLine" is a series of exercises in medical ethics and communication skills. The goal of the program is to enable students to improve their knowledge of medical ethics and their skills in communicating about ethical issues with patients and their families.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 4 credits

MSPA 570S Medical Pathology I 6.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

MSPA 571S Medical Pathology II 4.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 8 credits

MSPA 580S Medical Microbiology I 4.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 8 credits

MSPA 581S Medical Microbiology II 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 6 credits

MSPA 590S Leadership Skills for the Medical Profession 3.0 Credits

This course is designed to help students develop leadership skills in order to facilitate success in their professional and personal lives. Students will be given the opportunity to discover and practice several leadership strategies and techniques. Topics will include leadership skills, communication skills, time-management, team-building, conflict resolution and stress management.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPA 600S Surgical Pathology I 6.0 Credits

Clinical practicum designed to teach the students the methods of gross tissue description, dissection and preparation of surgical specimens for light, immunofluorescent, immunochemical, frozen and electron microscopy.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

MSPA 601S Surgical Pathology II 6.0 Credits

Clinical practicum designed to teach the students the methods of gross tissue description, dissection and preparation of surgical specimens for light, immunofluorescent, immunochemical, frozen and electron microscopy. A continuation of Surgical Pathology I.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

Prerequisites: MSPA 600S [Min Grade: C]

MSPA 602S Surgical Pathology III 6.0 Credits

Clinical practicum designed to teach the students the methods of gross tissue description, dissection and preparation of surgical specimens for light, immunofluorescent, immunochemical, frozen and electron microscopy. A continuation of Surgical Pathology II.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

Prerequisites: MSPA 601S [Min Grade: C]

MSPA 610S Autopsy Pathology I 6.0 Credits

Clinical practicum designed to teach the students techniques of autopsy evisceration and dissection as well as special skills and procedures necessary for the performance of post-mortem examinations.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

MSPA 611S Autopsy Pathology II 6.0 Credits

Clinical practicum designed to teach the students techniques of autopsy evisceration and dissection as well as special skills and procedures necessary for the performance of post-mortem examinations. A continuation of Autopsy Pathology I.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

Prerequisites: MSPA 610S [Min Grade: C]

MSPA 612S Autopsy Pathology III 6.0 Credits

Clinical practicum designed to teach the students techniques of autopsy evisceration and dissection as well as special skills and procedures necessary for the performance of post-mortem examinations. A continuation of Autopsy Pathology II.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

Prerequisites: MSPA 611S [Min Grade: C]

MSPA T580S Special Topics in Pathologists' Assistant 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

MSPA T680S Special Topics in Pathologists' Assistant 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Pathology

Courses

PATH 502S PATHOLOGY 1ST LAB ROTATION 4.0 Credits

First rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotation are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 503S Pathology Journal Club 1.0 Credit

Students enroll for a minimum of four semesters for this twice monthly meeting.

College/Department: COM School of Biomedical Sciences Professional Studies

PATH 505S PATHOLOGY 2ND LAB ROTATION 4.0 Credits

Second rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 506S PATHOLOGY 3RD LAB ROTATION 4.0 Credits

Third rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during fall, spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 507S MEDICAL PATHOLOGY PART 1 7.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 509S Pathologic Processes 3.0 Credits

An abridged pathology course focusing primarily on aspects of general pathology (inflammation, wound healing and repair, immunopathology and autoimmunity, coagulation, vascular biology, and principles of neoplasia). Histopathology and cytology will be introduced. This course is a subset of PATH-507-05 Medical Pathology I geared toward the needs of graduate students.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 600S Pathology Thesis Research 9.0 Credits

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department, Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

PATH 601S CELL MOL PATHBIO CANCER ANGIOG 4.0 Credits

An advanced course addressing the cell and molecular processes associated with the biology of cancer progression. Major topics include cytogenetic abnormalities, the role and function of oncogenes and tumor suppressor genes, growth factor receptor interactions, cell cycle control and regulation of cell death, angiogenesis and the role of the extracellular matrix, viruses and cancer, tumor immunobiology, and tumor metastases. Although didactic in nature, the course requires extensive exposure to the current literature on topics at the forefront of cancer research.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PATH 751S PATHOLOGY AND LABORATORY MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8214S LABORATORY MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8222S ANATOMIC PATHOLOGY - 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PATH 8223S Anatomic Pathology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PATH 8224S ANATOMIC PATHOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PATH 8232S CLINICAL PATHOLOGY- 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PATH 8234S Clinical Pathology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8242S Diagnostic Cytology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PATH 8244S DIAGNOSTIC CYTOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8311S ANATOMIC PATH & LAB MED - 1 WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8312S ANATOMIC PATH & LAB MED - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8313S ANATOMIC PATH & LAB MED- 3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8314S Anatomic Path & Lab Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8412S PATHOLOGY SUBSPECIALITY- 2 WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8414S PATHOLOGY SUBSPECIALITY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 8424S Oncologic Pathology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PATH 9092S Forensic Pathology* 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH 9094S ELECTIVE - PATHOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH 9752S RESEARCH - PATHOLOGY - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH 9754S RESEARCH - PATHOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH 9756S RESEARCH-PATHOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH 9758S Research - Pathology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PATH T580S Special Topics in Pathology 0.0-12.0 Credits**

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit**PATH T680S Special Topics in Pathology 0.0-12.0 Credits**

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit

Pediatrics

Courses

PEDS 8010S Pediatrics 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8015S Pediatrics Clerkship 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8112S PEDS.-GASTROENTEROLOGY -2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 8114S Adolescent Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8212S Pediatric Allergy*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8213S PEDIATRIC ALLERGY/IMMUN.- 3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8214S PEDIATRIC ALLERGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8224S Pediatric Pulmonary/Allergy 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8312S AMBULATORY PEDIATRICS- 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8314S Ambulatory Pediatrics 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8322S Outpatient Peds & Advocacy 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8324S Outpatient Peds & Advocacy 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8332S Peds Palliative Care*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8334S Pediatric Palliative Care 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8412S PEDIATRIC CARDIOLOGY - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 8414S PEDIATRIC CARDIOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8504S Pediatric Subl in Hospital Med 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8514S DEVELOPMENTAL PEDIATRICS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8516S DEVELOPMENTAL-PEDIATRICS-6WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 8524S Pediatric Crit Care Med Sub 1 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

PEDS 8552S Subinternship Ped. Surgery* 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8554S Subinternship in Ped. Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8612S Pediatric Emergency Med*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8614S Pediatric Emergency Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8712S PEDIATRIC ENDOCRINOLOGY - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8714S Pediatric Endocrinology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8812S Pediatric Gastroenterology-2wk 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8813S PEDIATRIC GASTROENTEROLOGY 3WK 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 8814S PEDIATRIC GASTROENTEROLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8912S PEDIATRIC GERIATRICS - 2 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 8914S Ped Genetics/Dysmorphology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9012S PEDS.-HEMATOLOGY/ONCOLOGY 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 9014S PEDIATRIC HEMATOLOGY/ ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9022S Pediatric Hematology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9024S Pediatric Hematology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9033S Pediatric Rheumatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9034S Pediatric Rheumatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9042S CHILD MALTREATMENT & NEGLECT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9044S Child Maltreatment & Neglect 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9054S Pediatric Oncology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9064S Child Abuse Pediatrics 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9092S ELECTIVE-PEDIATRICS, 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 9093S ELECTIVE-PEDIATRICS -3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 9094S ELECTIVE - PEDIATRICS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9112S PEDS HIV&OTHER IMMUN DIS-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PEDS 9114S Pediatric Rheumatology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9212S Ped Infectious Disease*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9213S Pediatric Infectious Diseases 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9214S PEDIATRIC INFECTIOUS DISEASE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS 9312S NEONATAL INTENSIVE CARE - 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits

PEDS 9314S Neonatal Intensive Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9323S Pediatric Intensive Care Unit 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9324S Pediatric Intensive Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

PEDS 9414S PEDIATRIC NEPHROLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9514S PEDIATRIC OPHTHALMOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9612S PEDIATRIC DENTISTRY- 2 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9613S PEDIARTIC DENISTRY - 3 WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9614S PEDIATRIC DENTISTRY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9652S Pediatric Pathology* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9654S PEDIATRIC PATHOLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9712S Pediatric Primary Care-2 weeks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9714S PEDIATRIC PRIMARY CARE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9723S PEDIATRICS ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9724S PEDIARTICS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9754S RESEARCH PEDIATRIC 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9756S RESEARCH-PEDIATRICS 6WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9758S Research Pediatric 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9764S RESEARCH - NEONATAL 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9814S PEDIATRIC PULMONARY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9852S Pediatric Surgery* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9854S PEDIATRIC SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9864S Pediatric Neurosurgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS 9912S NEONATAL MED-SUBINTERNSHIP 2WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PEDS 9914S Neonatal Med Subinternship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S524S Transgender Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S534S Transitions-Pediatric to Adult 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S564S Neurodevelopmental Peds 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S582S Building Health Equity* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S594S Homeless Youth Outreach 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S614S Advanced Pediatrics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PEDS S624S Medical Genetics 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS S634S Inpt General Pediatrics Sub-I 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS S644S Children with Disabilities 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PEDS S795S PEDS: Post Year 1 Research EI. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Pharmacology

Courses

PHRM 502S Current Topics in Pharmacology & Physiology 1.0 Credit

Current topics in experimental pharmacology are presented via a journal club alternating with research presentations. In addition to active student participation, all members of the department of pharmacology and physiology (research assistants, postdoctoral fellows and faculty) participate.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit**PHRM 503S Pharm & Phys 1st Lab Rotation 4.0 Credits**

First rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHRM 504S Pharm & Phys 2nd Lab Rotation 4.0 Credits**

Second rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHRM 505S Pharm & Phys 3rd Lab Rotation 4.0 Credits**

Third rotation. Guided research is conducted on a part-time basis for two or three 8-10 week periods. Rotations are generally conducted during spring or summer of the first year. A written research report is required at the end of each rotation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHRM 507S Prin of Neuropharmacology 3.0 Credits**

This course covers basic concepts in Neuropharmacology, all of the major neurotransmitter systems, behavioral pharmacology and addition, approaches to molecular and cellular physiology including photoactivated biomolecules, electrophysiology, phosphorylation.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHRM 508S Fundamentals in Neuropharmacology 1.5 Credit**

This is an interactive and interdisciplinary course that introduces students to fundamental aspects of neuropharmacology. It is devoted to the study of drugs that affect nervous tissue and alter behaviors. The course will give an introduction to pharmacokinetics, receptor binding theory, signal transduction, neurochemical methods, and behavioral pharmacology. This is followed by lectures on individual neurotransmitter systems. The course will be taught at Drexel University College of Medicine.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Prerequisites:** IDPT 521 [Min Grade: B] or IDPT 550 [Min Grade: B]**PHRM 512S Graduate Pharmacology 3.0 Credits**

This team taught course provides a basic knowledge of the pharmacologic mechanisms of action, effects on organ systems, routes of administration, pharmacokinetics, therapeutic uses, adverse reactions, contraindications, and drug interactions of drugs.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHRM 516S Advanced Topics in Physiology 1.0 Credit**

PHRM516S is presented in several formats throughout the semester to discuss cellular physiology, neurophysiology, muscle physiology, cardiovascular physiology, pulmonary physiology, gastrointestinal physiology, endocrinology, and renal physiology. These formats include review of past scientific findings that led to the current understanding of a physiological principle, journal club style format, self-directed problem sheets, development of a working model based on past and present scientific knowledge, and point/counter-point discussions where students debate pros and cons of a controversy in physiology.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Corequisite:** PHGY 503S**PHRM 517S Advanced Topics in Pharmacology 1.0 Credit**

This course will expand upon the Graduate Pharmacology course for graduate students enrolled in Graduate Pharmacology 512S. The intent is to provide more in-depth coverage of selected topics that will be beneficial to students pursuing a career where pharmacology is a principle component of training, education and/or employment.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**Corequisite:** PHRM 512S

PHRM 518S New Frontiers in Therapy 1.0 Credit

This course will provide a glimpse of what could revolutionize diagnosis and treatment with emphasis on personalized medicine. Scientific impact, technical challenges, and sociopolitical repercussions will be discussed. Students will be required to write a research proposal in NIH format and are expected to participate in peer review.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PHRM 519S Methods in Biomedical Research 2.0 Credits

A primary goal for the course is to introduce students in the Graduate School of Biomedical Sciences and Professional Studies graduate programs to the breadth of techniques used within biomedical research, and thus at their disposal as they progress through their training. In parallel, it is expected that students will gain insight into not only the technical aspects of a variety of methodologies, but also how to critically examine techniques in both their own research and the literature for strengths, weaknesses, caveats and limits. At the end of the course, students should have a greater appreciation for the modalities used outside of their own rotation or dissertation labs, and an understanding of how those technologies are moving bench science forward.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PHRM 520S Internship in Drug Discovery and Development 4.0 Credits

The Internship in Drug Discovery and Development provides the student with a unique opportunity to apply the principles and skills learned in the classroom and acquire valuable professional experience and critical insight in a specific field. The internship is integrated into the curriculum such that it complements classroom activities and permits the student to explore an area of interest that they may ultimately pursue as a career path. Students are paired with experienced professionals who supervise their work and act as mentors and advisors. Internships can be arranged with an extensive network of pharmaceutical corporations, biotechnology companies, foundations and universities in the region as well as Drexel University itself.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PHRM 512S [Min Grade: C] and PHGY 503S [Min Grade: C] and PHRM 525S [Min Grade: C]

PHRM 521S Intensive Internship in Drug Discovery and Development 9.0 Credits

The Intensive Internship in Drug Discovery and Development provides the student with a unique opportunity to apply the principles and skills learned in the classroom and acquire valuable professional experience and critical insight in a specific field. The internship is integrated into the curriculum such that it complements classroom activities and permits the student to explore an area of interest that they may ultimately pursue as a career path. Students are paired with experienced professionals who supervise their work and act as mentors and advisors. Internships can be arranged with an extensive network of pharmaceutical corporations, biotechnology companies, foundations and universities in the region as well as Drexel University itself.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PHRM 512S [Min Grade: C] and PHGY 503S [Min Grade: C] and PHRM 525S [Min Grade: C]

PHRM 525S Drug Discovery and Development I 3.0 Credits

This course, the first of two, will provide in-depth exposure to the concepts and processes involved in drug discovery and development as practiced in the biopharmaceutical industry cover all facets from target identification through to the submission of the investigational New Drug Application (IND). Current unmet medical needs and case histories from difference therapeutic areas will be reviewed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PHRM 526S Drug Discovery and Development II 3.0 Credits

This course will provide in-depth exposure to the concepts and processes involved in drug discovery and development as practiced in the biopharmaceutical industry. It will follow the first course (Drug Discovery and Development I) and will cover all aspects from roval process to the submission of the NDA to regulatory approval and post-marketing surveillance.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PHRM 525S [Min Grade: B]

PHRM 527S Current Topics in Drug Discovery and Development 1.0 Credit

This is a student-driven course in a journal club format. Students select journal articles or news reports that highlight recent discoveries or developments that are particularly important or relevant to the field of drug discovery and development. Topics for presentation and discussion will include scientific, technical, commercial, legal, regulatory, and ethical issues as well as in-depth case studies of recently developed blockbuster or breakthrough drugs. Students will prepare and give presentations on their chosen topic, provide discussion prompts, answer questions related to their presentations, review the presentations of other students and pose relevant questions.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

PHRM 528S Drug Development Strategy & Planning 3.0 Credits

This course will provide a comprehensive overview of the concepts, processes and disciplines involved in drug development. It will explore the strategic choices associated with the clinical, regulatory, and manufacturing steps of the development process and their integration with financial and commercial considerations. The entire process of drug development from IND enabling studies to approval and marketing will be covered. This course will include in-depth discussions and practical exercises designed to provide practical insight into the decision-making process associated with the most critical steps in drug development.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PHRM 525S [Min Grade: B] and PHRM 526S [Min Grade: B]

PHRM 600S Pharmacology Thesis Research 9.0 Credits

Research toward the fulfillment of the dissertation is conducted beginning after successful completion of the qualifying examination. Progress is monitored by the student's advisor and department, Advisory Committee or Thesis Committee.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

PHRM 602S Research Methods in Pharmacology 2.0 Credits

A research course in which the student participates in several research projects under the direction of different staff members in order to become familiar with the specific areas of expertise of the faculty. This course emphasizes not only experimental methods but also the conceptual bases for investigating current problems in pharmacology.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PHRM 605S Research in Drug Discovery and Development 4.0 Credits

This course is designed to provide opportunities for the student to pursue research in the area of drug discovery and development. This can be done either in an academic or pharmaceutical laboratory under the supervision of a mentor. An alternative or an additional aspect can be the conduct of research for this thesis that is not laboratory research but library research based on an approved topic for the thesis requirement. Both alternatives, laboratory or library research must be approved by the course directors.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 3 times for 16 credits

PHRM 610S Practicum in Drug Discovery and Development 4.0 Credits

This course prepares students for transition into or advancement in the field of drug discovery and development and can be used as the basis for the scholarly document that is required for completion of the program. It consists of an independent project that involves in-depth exposure to a specific topic that is relevant to a discipline in drug discovery and development that the student wishes to pursue in the future. The training consists of hands-on research or development of technical expertise under the guidance of a mentor who has experience in the field.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 2 times for 12 credits

PHRM 9092S PHARMACOLOGY - ELECTIVE - 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PHRM 9094S PHARMACOLOGY -ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

PHRM 9750S RESEARCH-PHARMACOLOGY-16 wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PHRM 9754S PHARMACOLOGY RESEARCH 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PHRM 999S Special Topics in Pharmacology & Physiology 1.0-4.0 Credit

This is a special topics course that will focus on graduate level topics in the area of Pharmacology & Physiology. The exact content, readings, and grading will be determined by the professor on a course by course basis.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 3 times for 16 credits

PHRM T580S Special Topics in Pharmacology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

PHRM T680S Special Topics in Pharmacology 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Physical Med & Rehabilitation

Courses

PMRM 8712S Physical Medicine & Rehab* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PMRM 8714S Physical Medicine and Rehabilitation 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Can be repeated 3 times for 0 credits**PMRM 9092S Spinal Cord Injury Rehab*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PMRM 9094S ELECTIVE-PHYSICAL MED & REHAB. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Physiology

Courses

PHGY 502S ION CHANNELS IN CELLULAR PHYS. 2.0 Credits

This elective advanced course covers all aspects of ion channel physiology. In depth lectures on voltage-gated and ligand-gated ion channel structure and function are presented in the first part of the course. The second part of the course delves into electrophysiology and its application to cell physiology.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHGY 503S Graduate Physiology 4.0 Credits**

This lecture course is designed to introduce graduate students to the major organ systems of the body and their integration. A major focus will be on the basic biological/biophysical processes that underlie the integration functioning of these systems. The focus is on general principles, and examples will be drawn from both human and animal physiology.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit**PHGY T580S Special Topics in Physiology 0.0-12.0 Credits**

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies**Repeat Status:** Can be repeated multiple times for credit

Pre - Medical

Courses

PMED 800S Registered for Degree Only 0.0-6.0 Credits**College/Department:** COM School of Biomedical Sciences Professional Studies**Repeat Status:** Not repeatable for credit

Program in Integrated Learning

Courses

PILM 754S MEDICAL PHARMACOLOGY 0.0 Credits

This course is part of PIL BLOCK V (PILM 750S).

College/Department: College of Medicine**Repeat Status:** Not repeatable for credit

Psychiatry

Courses

PSYC 8010S PSYCHIATRY 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8015S Psychiatry Clerkship 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8112S SR.ELECT.CHILD&ADOLESCENT PSYC 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**PSYC 8114S CHILD & ADOLESCENT PSYCHIATRY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8115S Child/Adolescent & Adult Psyc 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8124S Child&AdolescentC/L Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8212S CONSULT-LIAISON PSYCH-2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8214S Consult-Liaison Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8314S PSYCHIATRY - ADULT INPATIENT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8324S PSYCHIATRY- INPATIENT SERVICES 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8334S Caring Together 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

PSYC 8414S PSYCHIATRIC MEDICAL CARE 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8416S PSYCHIATRIC MEDICAL CARE -8WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8434S Emergency Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8514S Adult Inpt Psychiatry Subinter 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8524S Emergency Psychiatry Subintern 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8534S Consult Liaison PsychSubintern 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8614S Substance Abuse and Dependence 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8624S Addiction Medicine 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**PSYC 8724S Perinatal Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8734S Outpt & Hosp Consult Psychiatr 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8814S Eating Disorders 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 8874S Dual Diagnosis Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 9092S ELECTIVE/PSYCHIATRY 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 9094S Elective - Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 9312S Adult Inpatient 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 9314S PSYCHIATRY- ADULT INPATIENT 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC 9754S RESEARCH- PSYCHIATRY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S564S Psychiatry Subinternship 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S584S Acting Internship in Adult Psy 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S624S Child, Adolescent, Family 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S634S Psych/FM Combined Elective 0.0 Credits**

This four-week elective focuses on psychiatric and general medical problems in a variety of patients and settings. The rotation incorporates many aspects of the UPMC Psychiatry-Family Medicine combined residency program and is shaped to give students a sense of what life will be like as a combined resident/attending. It introduces students to many of the faculty, residents, and clinical sites involved in the combined Psychiatry/Family Medicine residency at UPMC. Sites include the family health centers associated with UPMC McKeesport and St. Margaret Family Medicine Residency Programs, outpatient psychiatry mood/psychosis clinics, and the family medicine inpatient service at UPMC Western Psychiatric Hospital. The student will conduct family medicine and psychiatry clinical evaluations, including obtaining a history and performing physical exams, and make treatment recommendations. They will also participate in integrated care including in-person and chart consultations. The student will participate in family medicine and psychiatry resident didactics and present their own journal club topic at the end of the rotation.

College/Department: College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S644S Psych Acting Internship 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S654S Psychiatry in Medicine&Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S664S Day Treatment-Child Psychiatry 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S674S Int. Care Across the Lifespan 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S684S Addiction Med&Dual Diagnosis 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

PSYC S714S Merkatz Minority Visiting Schl 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S724S Alcohol Use Disorders 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**PSYC S733S Psychosomatic Med/C&L Psyc 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Radiation Oncology

Courses

RAON 8112S Radiation Oncology* 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RAON 8113S RADIATION ONCOLOGY - 3 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 8114S RADIATION ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 8724S Multidisciplinary Oncology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 9092S RADIATION - ONCOLOGY ELE 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for NaN credits**RAON 9093S RADIATION ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 9094S RADIATION - ONCOLOGY ELECTIVE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 9752S Research-Radiation Oncology2wk 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 9754S RESEARCH-RADIATION ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RAON 9756S Research-Radiation Oncology6wk 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Radiologic Sciences

Courses

RADI 8112S NEURORADIOLOGY- 2WS (S/U) 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 8113S NEURORADIOLOGY- 3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8114S Neuroradiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8152S Comprehensive Breast Care*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**RADI 8154S Comprehensive Breast Care 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8212S NUCLEAR MEDICINE - 2 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8214S NUCLEAR MEDICINE 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8312S Introduction to Radiology*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8412S DIAGNOSTIC RADIOLOGY - 2WKS. 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8413S Diagnostic Radiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8414S DIAGNOSTIC RADIOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8512S VASCULAR & INTERVENT RAD- 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8514S VASCULAR & INTERVENTIONAL RAD 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8612S Interventional Radiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

RADI 8613S Interventional Radiology - 3wk 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8614S Interventional Radiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8714S Radiologic Sciences 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 8814S Women's Imaging 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 9092S ELECTIVE-RADIOLOGY -2WS (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 9093S ELECTIVE-RADIOLOGY-3WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 9094S ELECTIVE - RADIOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 9312S PEDIATRIC RADIOLOGY - 2 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 9314S Pediatric Radiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 9754S RESEARCH-NEURORADIOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 9756S RESEARCH-RADIOLOGY (6WKS) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI 9757S RESEARCH-RADIOLOGY-7 WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI 9758S RESEARCH-RADIOLOGY (8 WKS) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**RADI S552S General Radiology Virtual*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI S554S General Radiology Virtual Elec 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI S564S Diagnostic Radiology&Pathology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI S572S Intro to Radiology-Virtual*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI S582S Advanced Clinical Imaging*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**RADI S594S Emergency & Trauma Radiology 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

Surgery

Courses

SURG 8010S SURGERY 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8114S AMBULATORY SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8168S ORAL& MAXILLOFACIAL SURG -8WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8212S Colorectal Surgery*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8214S COLON AND RECTAL SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8314S COMMUNITY SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8414S GENERAL AND VASCULAR SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8422S Vascular Surgery*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8423S VASCULAR SURGERY - 3 WEEKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8424S VASCULAR SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit

SURG 8503S SURGERY SUB INTERNSHIP 0.0 Credits**College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8504S Subinternship in Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**SURG 8505S Subinternship in Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8513S Gastrointestinal Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8514S GASTROINTESTINAL SURG/SURG ONC 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8522S General Surgery*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8523S General Surgery - 3 Weeks 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8524S GENERAL SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8532S Gen Surg/Min Invasive Surg*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8533S Minimally Invasive Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit**SURG 8534S GEN SURG/MIN INVASIVE SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8544S TRANSPLANTATION/PEDIATRIC SURG 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8554S ADV MINIMALLY INVASIVE SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8564S ADVANCED HEPATOBILIARY SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8574S GEN SURG W/ PRIM CARE EMPHASIS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8612S Oral & Maxillofacial Surgery*** 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8614S Oral & Maxillofacial Surgery 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8618S ORAL & MAXILLOFACIAL SURG 8WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8624S General/Vascular Surg/Wound 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8632S DENTISTRY & ORAL MED 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8712S SURGICAL ONCOLOGY -2WKS(S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8714S SURGICAL ONCOLOGY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8724S Min Invasive/Bariatric Surg 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8732S BREAST SURGERY - 2 WKS (S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8734S BREAST SURGERY 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8812S PED PLAST&RECONSTRUC SURG(S/U) 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8814S Ped Plastic & Reconstruct Surg 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8822S PLASTIC & RECON. SURGERY- 2WKS 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated 0 times for 0 credits**SURG 8823S Plastic & Reconstructive Surg 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Not repeatable for credit**SURG 8824S PLASTIC & RECONSTRUCTIVE SURG 0.0 Credits****College/Department:** College of Medicine**Repeat Status:** Can be repeated multiple times for credit

SURG 8825S Plastic/Reconstructive Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 8833S Pediatric Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 8834S Pediatric Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 8844S Burn Trauma 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 8914S SUBSPECIALITY SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 8934S WOMEN IN SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9012S SURGICAL INTENSIVE CARE UNIT 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9013S Trauma/Critical Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for NaN credits

SURG 9014S Trauma/Critical Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

SURG 9022S Transplant Surgery* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

SURG 9024S Transplant Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

SURG 9052S SURGICAL INTENSIVE CARE- 2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

SURG 9054S SURGICAL INTENSIVE CARE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9092S ELECTIVE-SURGERY -2WKS (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

SURG 9093S ELECTIVE-SURGERY 3WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

SURG 9094S ELECTIVE-SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9112S UROLOGY- 2WEEKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9113S Urology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9114S UROLOGY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9134S Pediatric Urology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

SURG 9752S Research - Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9754S RESEARCH - SURGERY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9755S Research-Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG 9756S RESEARCH-SURGERY 6WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

SURG 9758S RESEARCH-FETAL WND HEALING 8WK 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 2 times for 0 credits

SURG S513S Trauma & Emergency Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S514S Trauma and Emergency Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S524S General Surgery Acting Interns 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S563S IntroTrauma Patient Management 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S573S Emergency General Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S574S Emergency Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S624S Congenital Heart Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S634S Hepatobiliary&Transplant Surg 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S644S Laproscopic Surgery Service 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S654S Burn&Soft Tissue Surgery AI 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S664S Colorectal Surgical Oncology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S684S Care of Critically Ill Patient 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S694S Burn Center 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S714S Integrated Plastic Surg. Sub-I 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S724S Surgical Critical Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S754S Bariatric Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S764S Obesity Mgmt - Health&Wellnes 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S774S Advanced Surgical ICU 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S784S Trauma Surgery Subinternship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S794S Pediatric Cardiac 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S814S Trauma ICU Acting Internship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S824S Trnsplnt&Hepatobiliary Disease 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S834S Respiratory-Surgical ICU 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Women's Health Ed. Program

Courses

WOMN 8112S WOMEN'S HEALTH AMBULATORY-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8114S WOMEN'S HEALTH - AMBULATORY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8122S WOMENS HLTH EDUCATION-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8124S WOMEN'S HEALTH EDUCATION 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8132S WOMN HLTH/COLL PRIM CARE 2-WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8134S WOMEN'S HLTH IN THE COMMUNITY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8144S Womens Health Primary Care Set 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 8152S WOMEN'S HEALTH-CLINICAL-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

WOMN 8154S COMP BREAST CARE-MAMMOGRAPHY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated 0 times for 0 credits

WOMN 8164S Women's Health & Public Policy 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

WOMN 9094S WOMENS HEALTH-ELECTIVE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

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