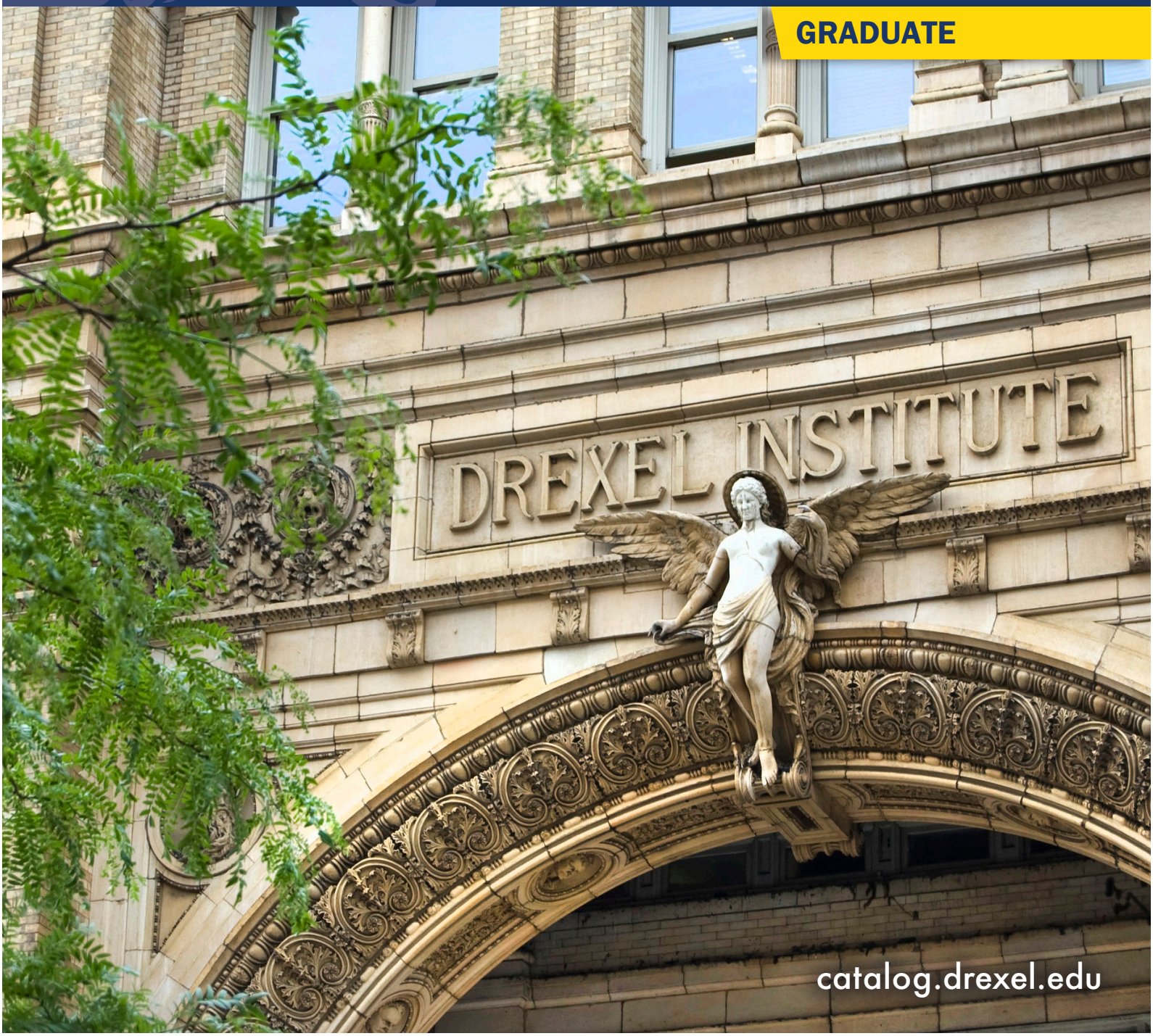
DREXEL UNIVERSITY
College of
Medicine

CATALOG
2022-2023

GRADUATE



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The College of Medicine

Overview

Renowned for its innovative, student-centered educational programs, Drexel University College of Medicine (http://www.drexel.edu/medicine/) represents the consolidation of two venerable medical schools with rich and intertwined histories: Hahnemann Medical College and Woman's Medical College of Pennsylvania. Established in 1848 and 1850, respectively, they were two of the earliest medical colleges in the United States, and Woman's was the very first medical school for women.

Today, with more than 1,000 medical students, Drexel University College of Medicine is educating one in every 83 medical students in the nation. Graduate students number more than 800, and the College is the academic partner in the education of nearly 600 medical residents and fellows. There are more than 700 clinical and basic science faculty, and more than 1,700 affiliate and volunteer faculty.

Within the College of Medicine, The Graduate School of Biomedical Sciences and Professional Studies (http://catalog.drexel.edu/graduate/schoolofbiomedicalsciences/) offers an additional 29 majors, 3 graduate minors, and 5 professional certificates.

Major

- Medicine (MD) (p. 2)
- Medicine (MD) / PhD (p. 5)

About the College of Medicine

Mission Statement

Drexel University College of Medicine excels and innovates in education, research, and delivery of compassionate care in our culture of diversity, spirited inquiry, collaboration, and opportunity.

About the College

The College of Medicine's main campus, Queen Lane, is in a suburban-like setting in the East Falls section of Philadelphia. Additional education and research facilities are located at the Center City Campus. Students receive their clinical education at 25 affiliated hospitals and ambulatory sites chosen for their commitment to teaching as well as medical excellence.

The College of Medicine has established one of the largest centers for spinal cord research in the Mid-Atlantic Region, and founded one of the leading centers for malaria study in the nation. Collaborative projects leveraging Drexel University's technological expertise continue to push the frontiers of nanomedicine and neuroengineering.

The multifaceted HIV/AIDS program includes an affiliated primary care and specialty practice and extensive NIH-funded research in prevention and therapeutic interventions. Faculty physicians are highly respected in numerous other specialties, including cardiology, sports medicine and neurology. The first medical school in the country to completely integrate women's health into its curriculum, the College is the home of ELAM®, the highly regarded Executive Leadership in Academic Medicine Program for Woman.

Facilities

Queen Lane Student Activities Center

A 17,700 square-foot student activity center was completed in 2006 at the Queen Lane Campus. The Student Activities Center occupies 2 floors and houses a full line of exercise equipment, a bookstore, student government offices and flexible space for events and lectures. The facility is available to students, staff and groups.

Queen Lane Medical Simulation Center

The College opened a state-of-the-art simulation center for medical education in 2010. Part of a new 25,000 square-foot addition, the center allows students to learn in simulated operating room and patient room settings.

Clinical Education Assessment Center

Ten examination rooms with digital capture that simulate physicians' offices are linked to control and observation rooms for faculty. Students work with standardized patients to enhance their abilities in medical interviewing, physical examination skills, and patient counseling.

Multidisciplinary Laboratories

- Forty-two tables with microscopes for teaching neuroanatomy, microbiology, and pathology are available.
- Microscopes are equipped with a networked video system so that all students in a class can look at a single slide under the microscope through monitors on their lab tables or on a projection screen and can retrieve microscopic images via computer.

New College Building

The New College Building at the Center City Campus is designed for the purpose of teaching basic and clinical sciences, with auditoriums, classrooms, laboratories and offices. The lecture halls accommodate a variety of educational methodologies, spanning from the basic lecture format to the enriched laboratory setting, where courses such as Anatomy, Pathology, Microbiology, Histology and Applied Anatomic Pathology can be taught.

The Doctor of Medicine (MD) Program

About the Program

Drexel University College of Medicine's MD program trains future physicians in the science and art of medicine. At Drexel, our medical students learn to combine cutting-edge technology with the highest level of compassion in the practice of medicine. Our supportive educational environment emphasizes collaboration and gives students a comfort level that lets them learn and thrive. Faculty members are concerned first and foremost with teaching and helping students.

Drexel's innovative MD curriculum, **Foundations and Frontiers**, is designed to create physicians for the 21st century. The curriculum instills all of the enduring qualities necessary for clinical excellence while also including essential competencies such as understanding of population health, health informatics, quality and patient safety, and health care systems and financing.

Foundations and Frontiers Highlights

Foundations and Frontiers was created with input from medical students, faculty, alumni and national medical education experts. The program builds on the College of Medicine's legacy in medical education and embraces Drexel University's reputation for innovation and collaboration.

Our curriculum is supported technologically by Drexel-developed iPad applications and state-of-the-art simulation and clinical education centers where medical students can apply what they have learned in the classroom with hands-on training.

Other hallmarks of the distinctive Frontiers and Foundations curriculum include:

- Early and frequent clinical exposure
- Integrated basic science and clinical education
- Team learning
- Technology-enhanced education
- Cultural competence
- Community and civic engagement
- An award winning, nationally recognized Professional Formation program
- Enhanced opportunities for research and scholarly projects in basic science as well as other areas such as Women's Health, Population Health, Healthcare Economics, and Humanities

Campuses

Incoming medical students are assigned to one of two campuses – Philadelphia and West Reading, PA. Our Philadelphia college of medicine campus will move to University City in summer 2023 and will be housed in the brand new Health Sciences Building along with the College of Nursing and Health Professions. Our state-of-the-art West Reading campus opened in July 2020 and is in close proximity to Tower Health's Reading Hospital. Both campuses offer vibrant student life with access to cultural, artistic and sporting activities as well as opportunities to become involved in community outreach.

The Societies

Incoming medical students are placed into one of seven learning communities, or "societies," each taking its name from a famous Philadelphia or Reading landmark: Athenaeum, Liberty Bell, Physick House, Rocky Statue, Reading Terminal, Eakins House, and Pagoda.

Each society has elected student representatives, who are responsible for coordinating and planning society activities.

The society provides a social structure for each student, giving a small-school feel while maintaining all of the advantages and amenities of a large institution.

The program helps promote a greater sense of community and connectedness among the medical students and faculty. The society serves as the core unit for a variety of valuable activities including:

- Small group learning
- Advising / peer mentoring program
- Community service projects
- Activities to promote student wellness
- Social activities
- Society-based competitions culminating in the coveted "Dean's Cup"

The Foundations and Frontiers curriculum information presented is subject to revision. Last updated July 1, 2022.

Additional Information

For more information, including admissions details, visit the College of Medicine's MD Program (http://drexel.edu/medicine/academics/md-program/) website.

Three-Phase Curriculum

Foundations and Frontiers is a four-year curriculum that has been divided into three phases. Phase One (years 1 and 2) lays the groundwork for basic and clinical science. Phase Two (year 3) allows medical students to apply their patient care knowledge and skills to a variety of clinical settings. Phase Three (year 4) focuses on advanced clinical skills and preparation for residency.

Phase 1: Foundations

The 18-month "Foundations" phase includes basic and clinical science courses that integrate multiple disciplines. Medical students also spend time in non-traditional classroom settings working in teams to apply knowledge to clinical problems. This phase of the curriculum also includes multiple experiences in our state-of-the-art simulation center working with high-fidelity mannequins and standardized patients. The basic science content begins with an introduction to cells and tissues and then proceeds into organ-based blocks with a focus on normal processes. During the second year, medical students revisit the major organ systems with a focus on abnormal processes.

Lectures, conferences, laboratory, simulation and other team-learning formats develop and extend the principles introduced in the case throughout the week.

A longitudinal practicum experience extends through the Foundations phase and exposes medical students to patients in varied community settings. It provides experiences in chronic care, service learning and inter-professional education, and is combined with a social justice and health disparities curriculum.

During four one-week blocks, medical students will be immersed in the "Frontiers" portion of the curriculum, providing cutting-edge study in such areas as healthcare informatics, population health, quality and patient safety, healthcare economics, and principles of translational research.

Phase 2: Applications

The one-year long "Applications" phase allows medical students to practice their patient care knowledge and skills in a variety of clinical settings. The year starts with participating in a two-week structured session, "*Intersession I: Transition to the Clinical Years*," which focuses on skills needed for medical students to function effectively on the wards.

During the third year, medical students rotate through clerkships in surgery, internal medicine, family medicine, pediatrics, psychiatry, neurology, ambulatory medicine, and obstetrics and gynecology. To enhance the diversity of their clinical experience, medical students work with faculty members at multiple sites in metropolitan centers, working-class neighborhoods, suburbs, inner city areas, and rural communities.

All third-year clerkships take place on Drexel's academic campuses. Assignments for third year are based on the results of a lottery system, although medical students can elect year-long assignments at our six regional campuses:

- Abington Memorial Hospital
- Allegheny General Hospital
- York Hospital
- Kaiser Permanente in Sacramento
- Monmouth Medical Center
- Crozer Chester Medical Center

Phase 3: Transitions

The "Transitions" phase focuses on advanced clinical skills and preparation for residency. The fourth year curriculum is structured within "Pathways" - an advising system that gives medical students a well-rounded educational experience and also prepares them for potential career. Medical students may choose a discipline-specific Pathway or one that provides more broad-based experiences. All medical students have a Pathway-specific advisor who works with the student to balance the structure and flexibility of their learning needs, helps prepare the student to enter postgraduate training with confidence, and works to maximize the guidance and counseling available from preceptors.

The Pathway advisors help medical students focus their preparation for graduate medical education and careers. The Pathway program also gives medical students experience in fields of interest other than the one that is likely to be their career path. Medical students take both required courses and electives in the Pathway system. Six courses are required:

- Sub-internship in a core discipline
- Pathway-specific rotation
- Emergency medicine or critical care rotation
- Transition to residency
- Residency-immersion experience

Fourth-year medical students have opportunities to complete a variety of clinical elective rotations at hospitals and sites that are not Drexel clinical affiliates, including international rotations. In addition, during the fourth year, medical students may choose to leverage the expertise of one of Drexel's other colleges by studying for a graduate certificate in one of the Frontiers content areas. Alternatively, medical students may choose to conduct a scholarly project under the direction of a faculty member.

Dual Degree Programs

MD/PhD Program

The MD/PhD program is designed for a limited number of individuals who are strongly motivated toward a career in academic medicine and medically oriented research. The program trains individuals in the fundamental clinical aspects of medicine and offers advanced training in biochemistry, microbiology and immunology, molecular and cellular biology, neuroscience and pharmacology, as well as medical engineering. Physicians with extensive research training are uniquely positioned to advance medical care and to teach at the cutting edge of medical discovery. Tuition scholarships and stipends for medical school and graduate school are provided for a limited number of students.

MD/MPH

With Drexel's School of Public Health, the College of Medicine offers a joint five-year program for highly qualified students to pursue both the MD and the Master of Public Health degrees. Students are taught to be physicians with a public-health orientation to the development, planning, delivery, and evaluation of health care programs and policies.

MD/MBA

The MD/MBA degree meets a growing demand by physicians who wish to manage corporate medical practices, hospitals, and related organizations and contribute to the development of health policy. The joint program prepares physicians to apply management principles to individual or group practices or to move into management positions at many types of organizations. Students receive training at both the College of Medicine and at Drexel's A.A.C.S.B. -accredited LeBow College of Business. The program lets students earn both degrees in five years.

Additional Information

For more information, visit the College's Dual Degrees (https://drexel.edu/medicine/academics/md-program/dual-degree-programs/) page.

Medicine (MD) / PhD

Major: Medicine (MD) / PhD
Degree Awarded: Doctor of Medicine (MD) and Doctor of Philosophy (PhD)
Calendar Type: Semester
Minimum Required Credits: 60.0
Co-op Option: None
Classification of Instructional Programs (CIP) code: 26.0102
Standard Occupational Classification (SOC) code:

About the Program

The MD/PhD program allows students to integrate their medical education with intense research training by selecting a training mentor from one of the PhD programs. Once a research training mentor is selected, the student will be enrolled in the PhD program with which the mentor is academically affiliated. MD/PhD students learn the fundamental clinical aspects of medicine and receive advanced training in a specific field of research. Physicians with extensive research training are uniquely positioned to advance medical care and to teach at the cutting edge of medical discovery.

Admission Requirements

MD/PhD Program Application Procedure

Applications are submitted to the medical school through AMCAS, please select the MD/PhD option in the AMCAS application. After the verified application is received, Drexel University College of Medicine will send the secondary application. If the MD/PhD option was not initially selected in the AMCAS application, applicants may indicate their interest in the program by selecting the MD/PhD option in the secondary application.

Both options place the application in a separate review group, specific for the MD/PhD dual degree program. Please ensure that at least one of the recommendation letters is from an individual who is able to assess the applicant's research capabilities and potential.

Required Application Materials

1. AMCAS application
2. Medical school supplemental application (sent via email after AMCAS application is verified in our system)
3. AMCAS letters of recommendation (make sure all of your recommenders have submitted their letters to AMCAS)
4. Photo (submitted with medical school supplemental application)
5. Interview days for 2021 are November 30 and December 7

Eligibility

Applicants must be U.S. citizens or permanent residents. If the applicant is a permanent resident of the U.S., a copy of the applicant's green card is required when applying.

Degree Requirements

Students must complete all MD requirements, which also substitute for Year One PhD requirements. The remaining PhD requirements per program are listed below.

MD/PhD in Biochemistry of Health & Disease

Required Courses		
BIOC 506S	Biochemistry Journal Club *	5.0
BIOC 507S	Biochemistry Seminar Series *	5.0
BIOC 508S	Experimental Approaches to Biochemical Problems	3.0
BIOC 511S	Communication for Researchers	2.0
BIOC 521S	Introduction to Biochemical Data	2.0
BIOC 600S	Biochemistry Thesis Research *	45.0
IDPT 500S	Responsible Conduct of Research	2.0
IDPT 600S	Thesis Defense	9.0
Advanced Electives		**6.0**
Select at least two Advanced Electives for a minimum of 6.0 credits:		
BIOC 520S	Macromolecular Structure & Function	
BIOC 522S	Biochemistry of Drug Discovery & Design	
BIOC 603S	Advanced Topics in Biochemistry and Molecular Biology	
CBIO 510S	Cancer Biology	
CBIO 512S	Advanced Cancer Biology	
MCBG 506S	Advanced Cell Biology	
MIIM 555S	Molecular Mechanisms of Microbial Pathogenesis	
MIIM 604S	Special Topics in Virology	
MIIM 630S	Advanced Molecular Biology	
NEUR 609S	Graduate Neuroscience II	
PHGY 503S	Graduate Physiology	
PHRM 512S	Graduate Pharmacology	
PHRM 525S	Drug Discovery and Development I	
General Electives		
BIOC 502S	Biochemistry 1st Lab Rotation	
BIOC 503S	Biochemistry 2nd Lab Rotation	
BIOC 504S	Biochemistry 3rd Lab Rotation	
IDPT 501S	Biostatistics I	
IDPT 507S	Teaching Practicum I	
IDPT 508S	Teaching Practicum II	
IDPT 509S	Teaching Practicum III	
Total Credits		**79.0**

* Taken each semester until the last, when only Thesis Defense is taken

MD/PhD in Microbiology & Immunology

Required Courses		
IDPT 500S	Responsible Conduct of Research	2.0
IDPT 600S	Thesis Defense	9.0
MIIM 502S	Microbiology and Immunology Journal Club *	5.0
MIIM 514S	Grant Building	2.0
MIIM 600S	Microbiology and Immunology Thesis Research *	45.0
MIIM 606S	Microbiology and Immunology Seminar *	5.0
Advanced Electives		**4.0**
Select at least two Advanced Electives for a minimum of 4.0 credits:		
MIIM 528S	Structural Bioinformatics	
MIIM 555S	Molecular Mechanisms of Microbial Pathogenesis	
MIIM 607S	Immunology II	
MIIM 613S	Emerging Infectious Diseases	

MIIM 615S	Experimental Therapeutics
MIIM 625S	Advanced Molecular Virology
MIIM 630S	Advanced Molecular Biology
General Electives	
IDPT 501S	Biostatistics I
IDPT 507S	Teaching Practicum I
IDPT 508S	Teaching Practicum II
IDPT 509S	Teaching Practicum III
MIIM 504S	Microbiology and Immunology 1st Rotation
MIIM 505S	Microbiology and Immunology 2nd Rotation
MIIM 506S	Microbiology and Immunology 3rd Rotation
Total Credits	**72.0**

* Taken each semester until the last, when only Thesis Defense is taken

MD/PhD in Molecular & Cell Biology & Genetics

Required Courses		
IDPT 500S	Responsible Conduct of Research	2.0
IDPT 600S	Thesis Defense	9.0
MCBG 506S	Advanced Cell Biology	2.0
MCBG 512S	MCBG Journal Club *	5.0
MCBG 513S	Molec & Cell Biology Seminar *	5.0
MCBG 600S	MCBG Thesis Research *	45.0
Advanced Electives		**7.0**
Select at least three Advanced Electives for a minimum of 7.0 credits:		
BIOC 508S	Experimental Approaches to Biochemical Problems	
BIOC 511S	Communication for Researchers	
BIOC 521S	Introduction to Biochemical Data	
BIOC 603S	Advanced Topics in Biochemistry and Molecular Biology	
CBIO 510S	Cancer Biology	
CBIO 512S	Advanced Cancer Biology	
MCBG 514S	Cell Cycle and Apoptosis	
MIIM 508S	Immunology I	
MIIM 555S	Molecular Mechanisms of Microbial Pathogenesis	
MIIM 607S	Immunology II	
MIIM 613S	Emerging Infectious Diseases	
MIIM 615S	Experimental Therapeutics	
MIIM 630S	Advanced Molecular Biology	
NEUR 508S	Graduate Neuroscience I	
NEUR 511S	Advanced Neuroscience	
NEUR 512S	Advanced Systems and Behavioral Neuroscience	
PHRM 507S	Prin of Neuropharmacology	
PHRM 512S	Graduate Pharmacology	
PHRM 525S	Drug Discovery and Development I	
PHRM 526S	Drug Discovery and Development II	
PHRM 602S	Research Methods in Pharmacology	
General Electives		
MCBG 501S	MCBG 1st Lab Rotation	
MCBG 502S	MCBG 2nd Lab Rotation	
MCBG 503S	MCBG 3rd Lab Rotation	
IDPT 501S	Biostatistics I	
IDPT 507S	Teaching Practicum I	
IDPT 508S	Teaching Practicum II	
IDPT 509S	Teaching Practicum III	
Total Credits		**75.0**

* Taken each semester until the last, when only Thesis Defense is taken

MD/PhD in Neuroscience

Required Courses		
IDPT 500S	Responsible Conduct of Research	2.0
IDPT 600S	Thesis Defense	9.0
NEUR 500S	Statistics for Neuro/Pharm Research	2.0
NEUR 520S	Neurobiology Topics I *	6.0
NEUR 521S	Neurobiology Topics II *	4.0
NEUR 600S	Neuroscience Thesis Research *	45.0
NEUR 609S	Graduate Neuroscience II	4.0
Advanced Electives		**1.0-4.0**
Select at least one of the following Advanced Electives:		
NEUR 511S	Advanced Neuroscience	
NEUR 512S	Advanced Systems and Behavioral Neuroscience	
NEUR 634S	Motor Systems	
General Electives		
IDPT 507S	Teaching Practicum I	
IDPT 508S	Teaching Practicum II	
IDPT 509S	Teaching Practicum III	
MCBG 506S	Advanced Cell Biology	
NEUR 501S	Neuroscience 1st Lab Rotation	
NEUR 502S	Neuroscience 2nd Lab Rotation	
NEUR 503S	Neuroscience 3rd Lab Rotation	
NEUR 508S	Graduate Neuroscience I	
PHRM 507S	Prin of Neuropharmacology	
Total Credits		**73.0-76.0**

* Taken each semester until the last, when only Thesis Defense is taken

MD/PhD in Pharmacology & Physiology

Required Courses		
IDPT 500S	Responsible Conduct of Research	2.0
IDPT 600S	Thesis Defense	9.0
PHRM 502S	Current Topics in Pharmacology & Physiology *	5.0
PHRM 507S	Prin of Neuropharmacology	3.0
PHRM 516S	Advanced Topics in Physiology	1.0
PHRM 517S	Advanced Topics in Pharmacology	1.0
PHRM 600S	Pharmacology Thesis Research *	45.0
Advanced Electives		**4.0**
Select at least two Advanced Electives for a minimum of 4.0 credits:		
BIOC 520S	Macromolecular Structure & Function	
CBIO 510S	Cancer Biology	
MIIM 508S	Immunology I	
MIIM 521S	Biotechniques I: Molecular and Genomic Methods	
PHRM 518S	New Frontiers in Therapy	
PHRM 519S	Methods in Biomedical Research	
PHRM 525S	Drug Discovery and Development I	
PHRM 526S	Drug Discovery and Development II	
MLAS 536S	Animal Models for Biomedical Research	
General Electives		
CR 500S	Epidemiology	
CR 513S	Business Processes and Contemporary Concerns in Pharmaceutical R & D	
CR 514S	World Wide Regulatory Submissions	
CR 515S	Intro to Clinical Trials	
CR 520S	Applications of Clinical Research Biostatistics	
CR 525S	Scientific Writing and Medical Literature	
CR 535S	Current Federal Regulatory Issues in Biomedical Research	
CR 545S	Pharmaceutical Law	
CR 550S	Leadership Skills	
CR 555S	Compliance & Monitoring Issues	
CR 570S	Principles and Practice of Pharmacovigilance	

CR 600S	Designing the Clinical Trial
CR 609S	Innovative Product Development
CR 612S	Fundamentals of Compliance
CR 614S	Introduction to Clinical Pharmacology
CR 617S	Informatics in Pharm Res & Development
CR 620S	Regulatory, Scientific and Social Issues Affecting Biotech Research
CR 625S	Health Policy and Economics
CR 635S	Strategic Planning
IDPT 501S	Biostatistics I
IDPT 507S	Teaching Practicum I
IDPT 508S	Teaching Practicum II
IDPT 509S	Teaching Practicum III
NEUR 500S	Statistics for Neuro/Pharm Research
PHRM 503S	Pharm & Phys 1st Lab Rotation
PHRM 504S	Pharm & Phys 2nd Lab Rotation
PHRM 505S	Pharm & Phys 3rd Lab Rotation
Total Credits	**70.0**

* Taken each semester until the last, when only Thesis Defense is taken

Sample Plan of Study
MD/PhD in Biochemistry of Health & Disease

First Year

Fall	Credits	Spring	Credits
First Year MD Curriculum		First Year MD Curriculum	
	0		**0**

Second Year

Fall	Credits	Spring	Credits
Second Year MD Curriculum		Second Year MD Curriculum	
	0		**0**

Third Year

Fall	Credits	Spring	Credits
Third Year MD Curriculum		Third Year MD Curriculum	
	0		**0**

Fourth Year

Fall	Credits	Spring	Credits
BIOC 506S	1.0	BIOC 506S	1.0
BIOC 507S	1.0	BIOC 507S	1.0
BIOC 508S	3.0	BIOC 511S	2.0
BIOC 600S	9.0	BIOC 521S	2.0
IDPT 500S	2.0	BIOC 600S	9.0
	16		**15**

Fifth Year

Fall	Credits	Spring	Credits
BIOC 506S	1.0	BIOC 506S	1.0
BIOC 507S	1.0	BIOC 507S	1.0
BIOC 600S	9.0	BIOC 600S	9.0
Advanced Elective	3.0	Advanced Elective	3.0
	14		**14**

Sixth Year

Fall	Credits	Spring	Credits
BIOC 506S	1.0	IDPT 600S	9.0
BIOC 507S	1.0		
BIOC 600S	9.0		
	11		**9**

Seventh Year

Fall	Credits	Spring	Credits
Fourth Year MD Curriculum		Fourth Year MD Curriculum	
	0		**0**

Total Credits 79

MD/PhD in Microbiology & Immunology

First Year

Fall	Credits	Spring	Credits
First Year MD Curriculum		First Year MD Curriculum	
	0		**0**

Second Year

Fall	Credits	Spring	Credits
Second Year MD Curriculum		Second Year MD Curriculum	
	0		**0**

Third Year

Fall	Credits	Spring	Credits
Third Year MD Curriculum		Third Year MD Curriculum	
	0		**0**

Fourth Year

Fall	Credits	Spring	Credits
IDPT 500S	2.0	MIIM 502S	1.0
MIIM 502S	1.0	MIIM 514S	2.0
MIIM 600S	9.0	MIIM 600S	9.0
MIIM 606S	1.0	MIIM 606S	1.0
Advanced Elective	2.0	Advanced Elective	2.0
	15		**15**

Fifth Year

Fall	Credits	Spring	Credits
MIIM 502S	1.0	MIIM 502S	1.0
MIIM 600S	9.0	MIIM 600S	9.0
MIIM 606S	1.0	MIIM 606S	1.0
	11		**11**

Sixth Year

Fall	Credits	Spring	Credits
MIIM 502S	1.0	IDPT 600S	9.0
MIIM 600S	9.0		
MIIM 606S	1.0		
	11		**9**

Seventh Year

Fall	Credits	Spring	Credits
Fourth Year MD Curriculum		Fourth Year MD Curriculum	
	0		**0**

Total Credits 72

MD/PhD in Molecular & Cell Biology & Genetics

First Year

Fall	Credits	Spring	Credits
First Year MD Curriculum		First Year MD Curriculum	
	0		**0**

Second Year

Fall	Credits	Spring	Credits
Second Year MD Curriculum		Second Year MD Curriculum	
	0		**0**

Third Year

Fall	Credits	Spring	Credits
Third Year MD Curriculum		Third Year MD Curriculum	
	0		**0**

Fourth Year

Fall	Credits	Spring	Credits
IDPT 500S	2.0	MCBG 506S	2.0
MCBG 512S	1.0	MCBG 512S	1.0
MCBG 513S	1.0	MCBG 513S	1.0
MCBG 600S	9.0	MCBG 600S	9.0
Advanced Elective	3.0	Advanced Elective	2.0
	16		**15**

Fifth Year

Fall	Credits	Spring	Credits
MCBG 512S	1.0	MCBG 512S	1.0
MCBG 513S	1.0	MCBG 513S	1.0
MCBG 600S	9.0	MCBG 600S	9.0
Advanced Elective	2.0		
	13		**11**

Sixth Year

Fall	Credits	Spring	Credits
MCBG 512S	1.0	IDPT 600S	9.0
MCBG 513S	1.0		
MCBG 600S	9.0		
	11		**9**

Seventh Year

Fall	Credits	Spring	Credits
Fourth Year MD Curriculum		Fourth Year MD Curriculum	
	0		**0**

Total Credits 75

MD/PhD in Neuroscience

First Year

Fall	Credits	Spring	Credits
First Year MD Curriculum		First Year MD Curriculum	
	0		**0**

Second Year

Fall	Credits	Spring	Credits
Second Year MD Curriculum		Second Year MD Curriculum	
	0		**0**

Third Year

Fall	Credits	Spring	Credits
Third Year MD Curriculum		Third Year MD Curriculum	
	0		**0**

Fourth Year

Fall	Credits	Spring	Credits
IDPT 500S	2.0	NEUR 500S	2.0
NEUR 520S	2.0	NEUR 521S	2.0
NEUR 600S	9.0	NEUR 600S	9.0
NEUR 609S	4.0	Advanced Elective	1.0-4.0
	17		**14-17**

Fifth Year

Fall	Credits	Spring	Credits
NEUR 520S	2.0	NEUR 521S	2.0
NEUR 600S	9.0	NEUR 600S	9.0
	11		**11**

Sixth Year

Fall	Credits	Spring	Credits
NEUR 520S	2.0	IDPT 600S	9.0
NEUR 600S	9.0		
	11		**9**

Seventh Year

Fall	Credits	Spring	Credits
Fourth Year MD Curriculum		Fourth Year MD Curriculum	
	0		**0**

Total Credits 73-76

MD/PhD in Pharmacology & Physiology

First Year

Fall	Credits	Spring	Credits
First Year MD Curriculum		First Year MD Curriculum	
	0		**0**

Second Year

Fall	Credits	Spring	Credits
Second Year MD Curriculum		Second Year MD Curriculum	
	0		**0**

Third Year

Fall	Credits	Spring	Credits
Third Year MD Curriculum		Third Year MD Curriculum	
	0		**0**

Fourth Year

Fall	Credits	Spring	Credits
IDPT 500S	2.0	PHRM 502S	1.0
PHRM 502S	1.0	PHRM 517S	1.0
PHRM 516S	1.0	PHRM 600S	9.0
PHRM 600S	9.0	Advanced Elective	2.0
	13		**13**

Fifth Year

Fall	Credits	Spring	Credits
PHRM 502S	1.0	PHRM 502S	1.0
PHRM 507S	3.0	PHRM 600S	9.0
PHRM 600S	9.0		
Advanced Elective	2.0		
	15		**10**

Sixth Year

Fall	Credits	Spring	Credits
PHRM 502S	1.0	IDPT 600S	9.0
PHRM 600S	9.0		
	10		**9**

Seventh Year

Fall	Credits	Spring	Credits
Fourth Year MD Curriculum		Fourth Year MD Curriculum	
	0		**0**

Total Credits 70

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