# Drexel University College of Medicine

Pharmacology & Physiology PhD Program

### **POLICIES AND PROCEDURES**

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#### PROGRAM OF STUDY FOR PH.D. IN PHARMACOLOGY & PHYSIOLOGY

#### A. Course Requirements

The curriculum includes one semester of a "Core Curriculum" that is shared by all of the biomedical graduate programs and a series of programmatic courses specific for Pharmacology and Physiology students. In the 1st year, all students in the Pharmacology and Physiology Program must take Core Curriculum, Responsible Conduct of Research, and Biostatistics OR Statistics for Neuro/Pharm Research (except M.D./Ph.D. students and students who may have had comparable courses elsewhere). All students in the Pharmacology and Physiology Program are required to take the following programmatic courses in the first year: Graduate Physiology, Graduate Pharmacology, and Advanced Topics in Pharmacology. In the second year, students must take Principles of Neuropharmacology. Students are required to take 2 graduate level elective courses chosen with advice from the Program Director and/or the Research Advisor. All students must register and participate in the seminar/discussion course Current Topics in Pharmacology and Physiology every semester while in the program up until registering for Thesis Defense. It is expected that each student will complete three research rotations prior to selecting a thesis research laboratory. Starting with their third year, students are required to register for Teaching Practicum which involves participating in a choice of teaching experiences. It is required that thesis research results in at least one published co-author manuscript and one submitted first author manuscript. The Pharmacology and Physiology Steering Committee and Program Director will advise each student on the selection of the flexible aspects of the curriculum.

#### B. Curriculum

First Year Fall Semester Core Concepts in Biochemistry and Cell Biology Learn Early As Professionals I (LEAP I) Graduate Physiology Pharmacology & Physiology 1st Lab Rotation	4 credits 1 credit 4 credits 4 credits	IDPT 533S IDPT 502S PHGY-503S PHRM-503S
Current Topics in Pharmacology & Physiology	1 credit	PHRM-503S
Total credits:	14 credits	
First Year Spring Semester		
Learn Early and Practice (LEAP II)	1 credit	IDPT 504S
Graduate Pharmacology	3 credits	PHRM-512S
Advanced Topics in Pharmacology	1 credits	PHRM-517S
Pharmacology & Physiology 2 <sup>nd</sup> Lab Rotation	4 credits	PHRM-504S
Pharmacology & Physiology 3 <sup>rd</sup> Lab Rotation	4 credits	PHRM-505S
Current Topics in Pharmacology & Physiology	1 credit	PHRM-502S
Total credits:	14 credits	

#### Second Year Fall Semester

Principles of Neuropharmacology 3 credits PHRM-507S Current Topics in Pharmacology & Physiology 1 credit PHRM-502S Pharmacology & Physiology Thesis Research 9 credits PHRM-600S Biostatistics\* 2 credits IDPT-501S

Electives 1-3 credit(s)

Total credits: 16-18 credits

#### **Second Year Spring Semester**

Responsible Conduct of Research 2 credits IDPT-500S Pharmacology & Physiology Thesis Research 9 credits PHRM-600S Current Topics in Pharmacology & Physiology 1 credit PHRM-502S

Electives 1-3 credit(s) **Total credits:** 13-15 credits

The Pharmacology & Physiology Program Director will serve as Advisor to New Graduate Students and meet with each graduate student once during the Fall and Spring semesters of the first year of study.

**Preliminary Exam** January of 2nd year. Written and oral segments must be passed.

**Qualifying Exam** - Mock R21 NIH Grant Proposal started no later than August between the second and third year of study. Written and oral segments must be passed.

#### Third Year Semesters and Beyond

Current Topics in Pharmacology & Physiology 1 credit PHRM-502S Pharmacology & Physiology Thesis Research 9 credits PHRM-600S

OR Thesis Defense

Teaching Practicum I, II or III 1-3 credit(s) IDPT507, 508 and 509

Total credits: 11-13 credits

The Office of Biomedical Education has established criteria by which all students in all graduate programs will be uniformly evaluated regarding the Core Curriculum. Students must achieve a score of 80 in Core in order to pass. Students who do not achieve an average of 80 in Core will be put on probation until after the second semester at which time the Core Curriculum Committee and the Program Steering Committee will determine if the student may retake Core in the Second Year. Failed courses must be repeated. Regarding the Programmatic courses, a grade of B must be earned in each course. Programmatic courses in which a student has earned a grade below B can be remediated to a B

<sup>\*</sup>Statistics requirement may be satisfied by taking either Biostatistics (IDPT-501S) OR Statistics for Neuro/Pharm Research (NEUR-500S).

#### **Unsatisfactory Performance in Current Topics in Pharmacology & Physiology**

Two unexcused absences are allowed per year for journal clubs. More than two absences will result in a grade of Unsatisfactory (U). The "U" must be remediated to the satisfaction of the course director.

#### **Laboratory Rotations**

The three laboratory rotations must be arranged during the first year in consultation with the Program Director and faculty of the Pharmacology & Physiology Program. The research areas may be chosen to complement the student's long-term research interests. Research rotations should provide an opportunity to:

- Practice scientific logic and experimental design
- Acquire useful technical expertise
- Extend scientific and personal interactions within and between labs
- Explore the possibility for a future Thesis research topic
- Develop presentation skills

At least 20 hours per week (minimum) for a three-month period are required for each rotation. The first rotation must begin no later than mid-August of the first year, and students must satisfactorily complete all rotations no later than Fall semester of second year. An oral presentation of the research experience is prepared by the student at the end of each rotation, presented to the department and evaluated by the faculty and the student.

Students and their mentors must complete a rotation evaluation form at the beginning, middle and upon completion of their rotation. A confidential evaluation of the PI from the student to the Program director is optional. Forms are available on the student portfolio website, as well as example forms. Upon completion of the final rotation, a student must immediately choose and enter a research lab to start Thesis research.

Students in good academic standing (GPA 3.0 and above), who have extensive previous academic lab research experience (1-year minimum, full time), have already identified/selected a specific Thesis laboratory for their Thesis work, and/or have a Master of Science in a field related to biomedical research may petition the Program Director to opt out of the third rotation. The students must provide a letter from their chosen Thesis Advisor to verify that the student has been accepted in that lab for Thesis work. The Program Director will forward the student's request to the Pharmacology & Physiology Steering Committee for consideration. If approved, students must immediately start their Thesis research.

#### **Unsatisfactory Performance in Laboratory Rotations**

Laboratory rotations are graded on a Satisfactory (S) or Unsatisfactory (U) basis. Students receiving an "S" are rated on a performance scale ranging from Outstanding (1) to Poor (5). A "U" for a lab rotation is reserved for students that do not meet performance requirements, including attendance, of the rotation as stipulated by the program. Please refer to the Laboratory rotations syllabus for more information.

#### **Advanced Elective Courses**

In consultation with the Advisory Committee or a student's mentor and according to the area of selected research, the student is required to select and pass a minimum of 2 advanced elective courses from a diverse range of topics that complement the core curriculum and provide relevant, in-depth knowledge. The 2 elective courses can be taken as appropriate throughout the student's training. A list of potential electives is provided below. This is a representative list; you are not limited to selecting from this list of electives. It is recommended that you consult with the course director for each course to receive approval to register for the course and to discern if there are prerequisites or class limitations.

# Advanced Elective Courses by Program Pharmacology and Physiology -

- Drug Discovery and Development I (McGonigle & Mathiasen) PHRM-525S (Spring)
- Drug Discovery & Development II (McGonigle & Mathiasen) PHRM-526S (Fall)
- New Frontiers in Therapy (Ajit) PHRM-581S (Fall)
- Methods in Biomedical Research (Gaskill) PHRM-519S (Spring)

#### Neuroscience -

- Advanced Cellular & Developmental Neuroscience NEUR-511S (Spring)
- Advanced Systems and Behavioral Neuroscience NEUR-512S (Spring)
- Graduate Neuroscience I NEUR-508S (Fall)

#### Microbiology & Immunology -

- Advanced Molecular Biology MIIM-630S (Spring)
- Emerging Infectious Diseases MIIM-613S (Spring)
- Vaccines & Vaccine Development MIIM-524S (Spring)
- Immunology MIIM-508S (Fall)
- Molecular Pathogenesis I MIIM-512S (Fall)

#### Molecular Cell Biology and Genetics -

- Advanced Cell Biology MCBG-506S (Spring)
- Cell Cycle & Apoptosis MCBG-514S (Spring)

 Macromolecular Structure & Function MCBG-507S (Spring)

#### Biochemistry

- Writing for Researchers: Grants and Papers BIOC-511S (Spring)
- Biochemistry Experimental Approaches BIOC-508S (Fall)
- Cancer Biology BIOC-510S (Fall)

#### Molecular Pathobiology

 Cell & Molecular Biology of Cancer PATH-601S (Spring)

#### **Teaching**

Starting in the third year of study, Ph.D. students will be required to participate in at least one of the following teaching experiences: Medical Pharmacology small-group conference; Lecturing in Graduate Physiology, or tutoring of students taking Graduate Pharmacology, Medical Pharmacology, Graduate Physiology, Principles of Neuropharmacology; or Physiology & Pharmacology SIM Center facilitation. Students will receive credit for their teaching/tutoring through registration for Teaching Practicum each year that they teach and in so doing a student's teaching experience will appear on their transcripts. Teaching Practicum information can be obtained from the Course Director (Jed Shumsky).

#### **Committee Meetings and Program Documentation**

It is the student's responsibility to assure that the appropriate paperwork is completed for Lab Rotation Evaluations, Preliminary Exams, Qualifying Exams, Thesis Committee Formation, Thesis Proposal Evaluation and Thesis Defense. Completed forms should be submitted to the Program Administrator and the Program Director and uploaded into the student portfolio.

Meetings between the student and his/her Thesis Committee serve to provide an objective, supportive and critical feedback evaluation of academic and scientific progress throughout Graduate School training. They are an essential part of the mentoring process. Committee meetings must be held every six months or more frequently if deemed necessary by the research advisor, student, or Thesis Committee. It is the responsibility of each student to convene committee meetings at a mutually convenient time and to provide evidence of such meetings in writing to the Program Director and the Biomedical Graduate Studies office via the "Dissertation Committee Meeting Report" form, which is completed by the Committee Chair.

#### M.D./Ph.D. Students

Due to their two years of medical school preparation prior to the start of their graduate training, students in the combined program are excused from the Core Curriculum, Graduate Pharmacology, Advanced Topics in Pharmacology, Graduate Physiology, Advanced Topics in Physiology, Biostatistics and Scientific Integrity and Ethics. Due to the time restrictions on their

course of study, they must complete all course requirements during their first year of graduate training. Typically, an MD/PhD student will have selected a thesis laboratory by the start of their graduate training, but if not, the student must do so by the end of the first semester of graduate training. Therefore, the three-rotation requirement is waived, and M.D./Ph.D. students must register for Thesis Research starting in their first Spring semester at the latest. They are required to take Principles of Neuropharmacology, two advanced graduate electives and Current Topics in Pharmacology & Physiology. M.D./Ph.D. students must take the Qualifying Examination by the end of the summer of their first year of graduate training.

#### C. Preliminary Exam

The purpose of the Preliminary Exam is to assess the student's ability to integrate, process and utilize knowledge gained prior to and during the first three semesters of Graduate School. Students in good standing who have completed their course work will be required to sit for a Preliminary Examination.

Format: All primary department faculty will contribute one question to the Preliminary Exam from which the students will be required to answer three. The answers will be in the form of five pages single-spaced, 12 pt font and 0.5" margins, not including adequate references to support the answers. The students will be allowed 3 weeks to complete the exam. Each question will be graded only by the faculty member who constructs the guestion, although any member of the Exam committee may review any of the answers. Answers will be graded on a scale of 100 points each. Passing will require a grade of 80 or better on all three answers. Students should begin preparing for the oral part of the exam upon submitting their written answers. Approximately two weeks after completion of the written portion of the Preliminary Exam, the students will orally defend their answers in a sixty-minute block of time. The oral examination committee will be composed of the faculty whose questions were answered for the written portion of the exam as well as a member of the Program Steering Committee. The format of the oral exam is as follows: the faculty member who wrote a question to be defended will begin with a general question about the answer; the other faculty on the committee can then ask follow-up questions if they wish. The oral questions will target the student's answers to the written portion but may include general and specific physiological and pharmacological principles that underlie the answers. A passing grade for the written and oral portion of the exam is required before a student may advance in the program.

The Preliminary Exam will be administered by a committee which is composed of the faculty whose questions were answered for the written portion of the exam as well as a member of the Program Steering Committee. Students will not be allowed to read from their written exam during the oral portion of the exam except when clarifying a statement that they have written. The results of the exam are included in the student's permanent file. Students may request written feedback from the Committee on the written portion of the exam once the exam is over. **The Preliminary Exam is taken in January of the second year.** 

#### **D. Qualifying Exam**

This is a mock NIH grant proposal in the R21 format that is defended orally. The purpose of the examination is to assess the students' scientific creativity, ability to design a research project, and oral and written communication skills. A Qualifying Exam Committee will be formed, consisting of the student's advisor, three other faculty members from the program and one faculty member from outside the program who is a member of the Graduate Faculty of Drexel University College of Medicine. The Chair of the Examination Committee will be any of the faculty members in the program other than the advisor and will be identified based on discussions between the student and advisor. The Qualifying Exam is started no later than August between the second and third year of study.

Written Part (A): The Chair will solicit from the prospective candidate a Specific Aims page describing research of a current problem in experimental pharmacology and/or physiology that will serve as the focus for the Qualifying Exam. As stated in the Guidelines for preparing NIH grants (SF424 RR):

The Specific Aims should concisely state "the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will exert on the research field(s) involved." The Specific Aims should "List succinctly the specific objectives of the research proposed, e.g., to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology." The Specific Aims page should be limited to a single page, single spaced, 12 pt font and 0.5" margins.

Please go to the following URL for examples:

https://www.niaid.nih.gov/grants-contracts/sample-applications#r21

The topic may be that which the student is planning for a thesis project, or a closely related topic. The Exam committee will either accept the problem as stated or recommend that the Chair and Advisor meet with the student in order to modify the problem or come up with an alternative. Once the topic is approved, the student will have one month to write and submit to each member of the Exam committee a detailed Research Strategy written in the R21 NIH grant proposal format. The advisor does not assist with the writing of this document. The document should be limited to six page, single spaced, 12 pt font and 0.5" margins, not including specific aims page or adequate references to support your Research Strategy. The Research Strategy should be organized and written according to the Guidelines for preparing NIH grants (SF424 RR) as stated below:

"Organize the Research Strategy in the specified order and using the instructions provided below. Start each section with the appropriate section heading – Significance, Innovation, Approach. Cite published experimental details in the Research Strategy section and provide the full reference in the Bibliography and References Cited section.

- (a) Significance
  - Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses.
  - Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields.

• Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.

#### (b) Innovation

- Explain how the application challenges and seeks to shift current research or clinical practice paradigms.
- Describe any novel theoretical concepts, approaches or methodologies, instrumentation, or interventions to be developed or used, and any advantage over existing methodologies, instrumentation, or interventions.
- Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation, or interventions.

#### (c) Approach

- Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Include how the data will be collected, analyzed, and interpreted.
- Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims.
- If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high-risk aspects of the proposed work.

If an applicant has multiple Specific Aims, then the applicant may address Significance, Innovation and Approach for each Specific Aim individually, or may address Significance, Innovation and Approach for all of the Specific Aims collectively. As applicable, also include the following information as part of the Research Strategy, keeping within the three sections listed above: Significance, Innovation, and Approach." **Preliminary Studies:** You may include information on Preliminary Studies. Discuss preliminary studies, data, and or experience pertinent to this application.

Oral Part (B): An oral defense of the student's grant proposal will be conducted between one and two weeks after submitting the proposal, barring any scheduling problems. Only the Exam committee will be in attendance. The exam will last approximately 60 min. The student will present a synopsis of the Research Strategy. The Exam committee may question the student about both the specifics of the proposal and any other issues in experimental pharmacology and/or physiology deemed pertinent to the topic at hand. Questioning may begin during the student's presentation. The Exam committee will meet in closed session immediately after the defense in order to render a decision. A student fails the oral exam if two or more members of the committee give failing grades.

The Chair of the Exam committee will report the decision (pass/fail) to the student. If the student passes, the Exam committee will instruct the Director of the Graduate Program to notify the Office of Biomedical Graduate Studies that the program has advanced the student to candidacy. If the student fails, the committee will recommend either: a) the student be offered the opportunity for reexamination, b) the student be offered the opportunity to transfer into the Master program and allowed to complete the Master's degree, or c) the student be dropped from the program

completely. Only one reexamination will be allowed. The Exam committee can determine, at its discretion, the form of the reexamination, but typically it will be an oral examination of the same written grant proposal.

Recommendations to drop a student from the program completely or transfer into the Master's program must be reviewed and approved at a meeting of the Pharmacology and Physiology Steering Committee. The Director of the Graduate Program will submit any recommendations concerning the student (transfer to the Master's program or dismissal) for approval in accordance with the Biomedical Graduate Student Handbook Policies.

#### **E. Thesis Advisory Committee**

- 1. By six months after passing the Qualifying Exam, the student will work with the Thesis Advisor to select members of the faculty to serve on the Thesis Advisory Committee. Once formed, this committee will meet every six months to review the student's progress. A written document is not required for committee meetings after the first thesis proposal committee meeting.
  - 1. Three of the five voting members of the Committee must be Graduate School faculty from the Pharmacology and Physiology Graduate Program. To complete the five-voting-member Committee the student must select one individual who is a specialist in the field but from outside the university (as approved by the Biomedical Graduate Education Committee) and one individual who is a member of the Graduate School faculty but not a member of the Pharmacology and Physiology Graduate Program.
  - a) The student's thesis advisor is a voting member of the Committee but cannot chair the Committee.
  - b) The Chair of the Committee must not be a collaborator on the student's research project and must not have any apparent conflicts of interest related to the publication or funding of the student's project. It is also the responsibility of the Chair to ensure that there is sufficient balance on the committee to ensure a rigorous and unbiased critique of the student's project and progress.
    - c) There can be additional members of the committee that do not have voting rights.

*Example Committee*: Advisor, Chair, 1 additional Pharm/Phys faculty member, 1 Drexel non-Pharm/Phys faculty member, and 1 non-Drexel faculty member.

2. Following each Committee meeting, the Dissertation Committee Meeting Report form must be prepared by the Committee chair, with necessary details of the student's progress. This form must be signed by each Committee member and submitted to the Program director and uploaded into the student's portfolio.

#### F. Thesis Proposal

1. The Thesis Proposal document must be submitted by PhD candidates within 9 months of passing the Qualifying Exam or by May of the third year. In the case of MD/PhD candidates, the document must be submitted within 6 months of passing the Qualifying Exam. Under special

circumstances this can be extended via written request to, and approval from, the Steering Committee. The Thesis Proposal must be written in the style and within the page limitations of an NIH R21 grant application and handed in 10 working days prior to formal presentation of the Thesis Proposal to his/her Thesis Advisory Committee. The advisor may work with the student while writing this document. Page limits, font size, and other matters of format are precisely what are advised in the most up-to-date NIH R21 instructions (outlined in the section "Qualifying Exam"). Upon approval of the Thesis Proposal the student will continue with his/her thesis research, culminating in the preparation of the Ph.D. dissertation for defense.

- 2. At the time of the proposal the student must present an oral summary of his/her intended research project followed by a detailed question and answer session. This meeting should be scheduled for two hours.
- 4. The Thesis Advisory Committee will reach a decision on the student's performance. If the decision is positive, the student may continue with his/her thesis research. If the decision is negative, the student can re-submit a revised or new proposal in three months and the process will be repeated. If the decision is negative a second time, the student may either be dismissed from the program or recommended for a terminal Master's degree. Recommendations to drop a student from the program completely or transfer into the Master's program must be reviewed and approved at a meeting of the Pharmacology and Physiology Steering Committee. The Director of the Graduate Program will submit any recommendations concerning the student (transfer to the Master's program or dismissal) for approval in accordance with the Biomedical Graduate Student Handbook Policies.

#### **G. Thesis Writing**

When all program requirements have been completed, including all necessary research activity for generating the required publications, a student may register for "Thesis Writing." The student's Thesis Committee, research advisor, and the program director must approve registration for "Thesis Writing". A thesis based on original research is requisite in partial fulfillment of requirements for the Ph.D. degree. The format of the thesis has been described in detail by the Office of Biomedical Graduate Studies, and this format must be followed precisely.

#### H. Thesis Defense

- 1. A candidate may not present him/herself for the final thesis defense until he or she has completed at least 24 calendar weeks of residence after satisfactory completion of the Thesis Proposal and has the approval of his/her thesis advisor. *In conjunction with the Dissertation, the student must have one published co-author manuscript and one submitted first-author manuscript.*
- 2. At least four weeks prior to the date of the commencement at which the degree is to be conferred, the thesis must be distributed to each member of the advisory-examination committee. Also at this time, the Chair of the Committee, or the Program Coordinator must notify the Office of Biomedical Graduate Studies, the Registrar's Office and all departments involved in graduate education of the scheduled date of the thesis defense.
- 3. The thesis defense will take place no less than two weeks and no more than four weeks after the thesis has been distributed to the members of the examination committee, except under written direction of the Steering Committee.

- 4. The thesis defense will be public. The candidate will be formally introduced by his/her advisor or the Chair of the Committee. The candidate will present a 45-minute seminar on his/her research, followed by questions from the Examination Committee and the general audience. After this initial question and answer period, the chair will dismiss the audience. The Examination Committee will meet in private with the candidate to complete the examination process.
- 5. The Thesis Examination Committee shall decide upon the merits of the candidate's performance on the thesis defense. To be recommended for a doctoral degree, the candidate must receive approval of the Committee with no more than one dissenting vote. By permission of the Committee a candidate who has failed the final thesis defense may present him or herself for re-examination after three, but not more than twelve months. This re-examination must be taken within a calendar year of failure to pass the first examination. A report on each final thesis defense whether passed, failed, or recommended for re-examination must be filed by the Committee in the Office of Biomedical Graduate Studies.
- 6. At least four weeks prior to the commencement at which the degree is to be conferred, three copies of the completed thesis suitable for binding and bearing the approval of the advisory-examination Committee must be deposited in the Office of Biomedical Graduate Studies. One of these copies is to be placed on file in the COM Library, Graduate Office, and the Pharmacology & Physiology Main Office. An unbound copy of the thesis must also be presented to the Office of Biomedical Graduate Studies for microfilming by University Microfilms, Ann Arbor Michigan. The abstract will be published in Dissertation Abstract by University Microfilms. The cost of preparation, reproduction and personal binding copies are the candidate's responsibility.

#### TRANSFERING BETWEEN DOCTORAL AND M.S. PROGRAMS

Under certain circumstances, the faculty may recommend that a student be transferred from the M.S. program to the Ph.D. program, transferred from the Ph.D. program to the M.S. program or transferred from the Ph.D. program or the thesis-oriented M.S. program to the non-thesis M.S. option. Students may elect to apply for program transfers with the approval of the Program Director. M.S. student transfer to the Ph.D. program will require formal application to the PhD program, adherent to the standard procedure and timeline.

#### **CODE OF BEHAVIOR**

The Graduate Program in Pharmacology & Physiology subscribes to the Code of Professionalism (https://drexel.edu/~/media/Files/medicine/drexel-pdfs/graduate-school/drexel-biomedical-science-student-handbook-2018.ashx?la=en) for all of its members. This policy states that professional behavior appropriate to a faculty and students in an

academic research setting is expected and required at all times. Admission to and continued participation in the Graduate Program is therefore contingent upon the student's understanding of this policy, and his/her agreement to adhere to its guidelines.

#### **CODE OF ETHICS**

The Graduate Program in Pharmacology & Physiology subscribes to the Code of Academic Integrity (presented in its complete form in the Student Handbook, (https://drexel.edu/~/media/Files/medicine/drexel-pdfs/graduate-school/drexel-biomedical-science-student-handbook-2018.ashx?la=en) for all its members. This policy states that cheating, plagiarism, forgery, or other forms of academic misconduct are not tolerated at our institution. Admission to and continued participation in the Graduate Program is therefore contingent upon the student's understanding of this policy, and his/her agreement to adhere to its guidelines.

#### **Disability Resources**

Students requesting accommodations due to a disability at Drexel University need to request a current Accommodations Verification Letter (AVL) in the ClockWork database before accommodations can be made. These requests are received by Disability Resources (DR), who then issues the AVL to the appropriate contacts. For additional information, visit the DR website, or contact DR for more information by phone at 215.895.1401, or by email at disability@drexel.edu.

#### **Tutoring**

The **Center for Learning and Academic Success Services (CLASS)** attempts to provide a tutor for all courses and ancillary subjects, such as test-taking, writing, study skills, and computer skills. Tutoring is a free service. For more information, please contact <u>CLASS</u> and <u>Center for Academic Success</u>. The office is located at this Drexel University, Center City Campus, New College Building, 245 N. 15th St, Suite 1602, Mail Stop 526, Philadelphia, PA 19102, Phone: 215-762-8121.

To schedule tutoring appointments through Accudemia, log in to <u>Drexel One</u>, select the "Academics" tab and follow the link to Accudemia in the "Academic Support" section. View instructions on scheduling an appointment: <u>How to Make a Tutoring Appointment [DOC]</u>. Please find additional information on <u>how to schedule tutoring appointments and FAQ regarding tutoring</u>.

#### Language support

For ESL or language support, please contact the <u>University's English Language Center</u>. In addition, the <u>university writing center</u> is available to support all students with their written work.