

**Revisions to the Graduate Curriculum**  
Adopted at the Physiology faculty meeting 2/15/10.

Revisions:

1. Replace Introduction to Research course PHL Y 7740 (3) with two one-semester rotations.
2. Add Molecular/Cell Biology MCBI 7410/ANAT 7202 (4) to recommended electives for Fall 1st year.
3. Move Research Ethics GRADS 7004 (2) to Spring 1st year.
4. Make Translational Physiology PHL Y 7705 (3), and Physiological Proteogenomics PHL Y 7704 (4) required courses for fall 2nd year.
5. Develop Translational/Advanced Neuroscience for students in neurotrack (Fall 2nd year).
6. Make Medical Physiology Special Topics PHL Y 7710 (3) a required course for Spring 2nd year.
7. Explore possibility of creating a new survey course Medical Neuroscience Special Topics based on Medical Neuroscience PHL Y 7730 for students in neurotrack.

## Revised Curriculum

### Required Courses

(Semester hours of coursework required for the doctoral program: 58. Credit hours per semester: 9 - 16)

	<b>Course Number</b>	<b>Credit Hours</b>
<b>Fall 1st Year</b>		
<b>Graduate Organ Systems Physiology</b>	<b>PHLY 7702</b>	<b>5</b>
<b>Seminar/Forum</b>	<b>PHLY 7715</b>	<b>1</b>
<b><u>Recommended Electives:</u></b>		
<i>Biochemistry 1</i>	<i>BIOC 7301</i>	<i>4</i>
<i>Molecular/Cell Biology</i>	<i>MCBI 7410/ANAT 7202</i>	<i>4</i>
Fall Electives		2
Research Rotation		
<b>Spring 1st Year</b>		
<b>Graduate Neuroscience</b>	<b>PHLY 7703</b>	<b>4</b>
<b>Research Ethics</b>	<b>GRADS 7004</b>	<b>2</b>
<b>Seminar/Forum</b>	<b>PHLY 7715</b>	<b>1</b>
<b><u>Recommended Electives:</u></b>		
<i>Practical Biometry</i>	<i>PHAR 7777</i>	<i>3</i>
Spring Electives		2-6
Research Rotation		
<b>Summer 1st Year</b>		
<i>Summer Research Rotation</i>		<i>Full time</i>
<b>Fall 2nd Year</b>		
<b>Translational Physiology</b>	<b>PHLY 7705</b>	<b>3</b>
<b>Physiological Proteogenomics</b>	<b>PHLY 7704</b>	<b>4</b>
<b>Seminar/Forum</b>	<b>PHLY 7715</b>	<b>1</b>
<b><u>Recommended Electives:</u></b>		
<i>Translational/Advanced Neuroscience (in works)</i>	<i>PHLY 7733</i>	<i>3</i>
Fall Electives		2-5
Research Rotation		
<b>Spring 2nd Year</b>		
<b>Medical Physiology Special Topics</b>	<b>PHLY 7710</b>	<b>3</b>
<b>Seminar/Forum</b>	<b>PHLY 7715</b>	<b>1</b>
<b><u>Recommended Electives:</u></b>		
<i>Medical Neuroscience Special Topics (???)</i>	<i>PHLY7710</i>	<i>3</i>
<i>Advance Topics in Physiology</i>	<i>PHLY 8710</i>	<i>2</i>
<i>Laboratory Research</i>		<i>Full time</i>
Spring Electives		2-7
<b>Summer 2nd Year</b>		
<b><u>Comprehensive Exams</u></b>		
<i>Laboratory Research</i>		<i>Full time</i>

#### Notes:

**Research Ethics GRADS 7004 is a required course by BSOM** (offered both in Fall and in Spring).

**Statistics is required course by Physiology Department:** Students are recommended to take **Practical Biometry**

**PHAR 777** or **Biostatistics I BIOS 7021** and **Biostatistics II BIOS 7021** (two-semester course).

**Students will have one-semester rotations guided by their Advisory committees.**

**Elective courses are included in the curriculum to provide an opportunity for each student to explore areas of interest.**

## List of Electives

### **Fall**

Biochemistry I	BIOC 7301	4
Biostatistics I	BIOS 7021	3
Graduate Cellular Physiology	PHLY 7701	3
Immunology I	BIOL 7170	3
Molecular Biochemistry	BIOC 7310	3
Molecular Genetics	BIOL 7870	3
Molecular/Cell Biology	MCBI 7410/ANAT 7202	4
Physiological Proteogenomics	PHLY 7704	4
Toxicology	PHAR 7680	4
Translational Physiology	PHLY 7705	3

### **Spring**

Advance Topics in Physiology I	PHLY 7710	3
Advance Topics in Physiology II	PHLY 8710	2
Biostatistics II	BIOS 7021	3
Cardiovascular Pharmacology	PHARM 7660	3
Immunology	MCBI 7450	4
Immunology II	BIOL 7190	3
Medical Neuroscience	PHLY 7730	5
Pharmacology of the Central Nervous System	PHAR 7640.	3
Regulation of Metabolism	EXSS 8334/BIOC8320	4