

**“Biomedical Science” PhD Curriculum Schema - Doctor of Philosophy with a Major in Biochemistry and Cancer Biology; Cellular Biology and Anatomy; Genomic Medicine; Molecular Medicine; Neuroscience; Pharmacology; Physiology; and Vascular Biology**

	<b>FALL (SEMESTER 1)</b>	<b>SPRING (SEMESTER 2)</b>	<b>Summer (3)</b>
<b>YEAR 1</b>	BIOM 8011(1): Responsible conduct of Research  BIOM 8021 (5): Biochemistry  BIOM 8022 (5): Molecular Cell Biology  BIOM 8040(2): Introduction to Faculty Research  BIOM 8050 (2): Introduction to Research I	BIOM 8012 (1): Scientific Communication  BIOM 8033: Integrative Systems Biology (6) BIOM 8060:  Introduction to Research II (4)  <i>SELECTIVE COURSES: (Choose 4 credit hours):</i> <ul style="list-style-type: none"> <li>• BIOM 8080 (4): Neuroscience I [ Required For Neuroscience Majors]</li> <li>• BIOM 8090 (2): Fundamentals of Genomic Medicine [Required For Genomic Medicine Majors]</li> <li>• BIOM 8030(2): Experimental Therapeutics</li> <li>• BIOM 8215 (2) Fundamentals of Oncology</li> <li>• BIOM 8230 (2) Biology of Proteins in Disease</li> <li>• BIOM 8240 (2) Introduction to Immunology</li> </ul>	STAT 7070 (3): Biomedical Statistics  Problem
<b>42 credit hours</b>	16 credit hours	14 credit hours	12 credit hours min
	<b>FALL (SEMESTER 4)</b>	<b>SPRING (SEMESTER 5)</b>	<b>SUMMER (6)</b>
<b>YEAR 2</b>	<b>XXXX 9210 (12):</b> Investigation of A Problem  <b>XXXX 9010 (1)</b> Seminar in XXXX Possible elective(s)	<b>XXXX 9210 (12):</b> Investigation of A Problem  <b>XXXX 9010 (1)</b> Seminar in XXXX Possible elective (s)	<b>XXXX 9210 (12):</b> Investigation of A Problem
	12 credit hours (minimum)	12 credit hours (minimum)	12 credit hours
	<b>FALL (SEMESTER 7)</b>	<b>SPRING (SEMESTER 8)</b>	<b>SUMMER (9)</b>
<b>YEAR 3</b>	<b>XXXX 9210 (12):</b> Investigation of A Problem  <b>XXXX 9010 (1)</b> Seminar in XXXX Possible elective (s)	<b>XXXX 9210 (12):</b> Investigation of A Problem  <b>XXXX 9010 (1)</b> Seminar in XXXX Possible elective (s)	<b>XXXX 9210 (12):</b> Investigation of A Problem
	12 credit hours (minimum) <b>+ PhD COMPREHENSIVE EXAM</b>	12 credit hours (minimum)	12 credit hours/114 <b>+ PhD RESEARCH PROPOSAL</b>
	<b>FALL</b>	<b>SPRING</b>	<b>SUMMER</b>
<b>YEAR 4-7</b>	<b>XXXX 9300 (12):</b> Dissertation Research  <b>XXXX 9010 (1)</b> Seminar in XXXX	<b>XXXX 9300 (12):</b> Dissertation Research  <b>XXXX 9010 (1)</b> Seminar in XXXX	<b>XXXX 9300 (12):</b> Dissertation Research
	12 credit hours (minimum)	12 credit hours (minimum)	12 credit hours 4th

XXXX depends on the major

**XXXX 9210** - Investigation of a Problem - must be taken every semester until admission to candidacy requirements are complete.

**XXXX 9300** – Research- must be taken every semester after admission to candidacy until dissertation requirements are met.

The Doctor of Philosophy curriculum is not lock-step; students do not graduate as a class at the end of a specific semester. The average time to degree is approximately 5 years of full-time, year-round study; acceptable duration of the program is between 3 and 7 years. The number and type of advanced (2nd year and beyond) or elective courses vary, and may include courses within the Molecular Medicine program as well as courses in other disciplines.

**Additional Requirements** In addition to specific course requirements, students must complete additional PhD degree requirements, including satisfactory performance on the Comprehensive Examination, development and approval of a research proposal, writing and approval of the doctoral dissertation, and satisfactory performance on the Final Oral Examination (dissertation defense). See PhD Student Guide for additional requirements and details.