Pathobiology, Pharmacology & Physiology

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Theme Information

Pathobiology, Pharmacology, & Physiology (P³) is one of eight interdisciplinary PhD themes within Graduate Biomedical Sciences (GBS). Students select a theme upon application but have access to faculty and courses from across GBS, allowing for flexibility in both research and academics.

P³ provides our graduate students the broadest training within the emerging and exciting field of molecular medicine. We have a flexible, didactic, integrated educational program directed by faculty with diverse research interests ranging from molecules to whole organisms and disease processes to new therapies.

Admissions

Prospective students should visit the GBS Admissions page (https://www.uab.edu/gbs/home/admissions) for information on admissions requirements, application deadlines, and how to apply.

Financial Support

All students accepted into GBS programs receive a competitive annual stipend and fully paid tuition and fees. Single coverage health insurance is also provided at no cost to the student. Please reference the GBS Financial Support page (https://www.uab.edu/gbs/home/admissions/financial-support) for further information.

Curriculum

Requirements | Hours
---|---
Lab Rotations | 3
GBS 795 | Lab Rotation 1
GBS 796 | Lab Rotation 2
GBS 797 | Lab Rotation 3
Core Courses | 7
GBS 701 | Core Concepts in Research: Critical Thinking & Error Analysis
GBS 707 | Basic Biochemistry and Metabolism
GBS 708 | Basic Genetics and Molecular Biology
GBS 709 | Basic Biological Organization
Module Courses | 8
GBS 750 | Nerves, Muscles and Bones
GBS 751 | Heart, Lung, and Kidney
GBS 752 | GI, Endocrine, and Immune System
GBS 753 | Pharmacology, Toxicology, and Molecular Medicine
Theme Required Courses | 8

GBS Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GRD 717</td>
<td>Principles of Scientific Integrity</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>Journal Clubs</td>
<td>4</td>
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<tr>
<td>Three Advanced Courses</td>
<td>5</td>
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Total Hours: 75

1 Required each fall and spring semester, 2nd year until graduation.
2 Course selected from the following: GBS 716, GBS 725, GBSC 726, GRD 709
3 Course selected from the following: GRD 770, BST 611, BST 612, BY 755, PY 716
4 Required each fall and spring semester, 2nd year until graduation.
5 Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 739, GBS 742, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBS 783, GBSC 705, GBSC 706, GBSC 707, GBSC 709, GBSC 710, GBSC 712, GBSC 714, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 736, GBSC 740, GBSC 741, GBSC 743, GBSC 745, GBSC 746, INFO 701, INFO 702, INFO 703, INFO 704, INFO 751, INFO 762, INFO 796, INFO 797, BME 770, BME 772, BME 780, or other approved course.
6 Student must complete 24 hours total of dissertation research, GBS 799.

Theme Faculty

The faculty listing for the Pathobiology, Pharmacology, & Physiology theme is located here (https://www.uab.edu/gbs/home/directories/gbs-faculty).

For further information, please reference the GBS website (https://www.uab.edu/gbs/home).