

**Pathobiology, Pharmacology, & Physiology (P3) Theme
2022-2023 Academic Requirements**

| COURSES | PLANNED | COMPLETED |
|---|--|------------------|
| Lab Rotations | | |
| GBS 795- Lab Rotation 1 (1 hour) | 1 st Fall | |
| GBS 796- Lab Rotation 2 (1 hour) | 1 st Fall | |
| GBS 797- Lab Rotation 3 (1 hour) | 1 st Spring | |
| GBS 794- Lab Rotation 4 (1 hour), if needed | 1 st Summer | |
| Core Courses | | |
| GBS 707- Basic Biochemistry and Metabolism (2 hours) | 1 st Fall | |
| GBS 708- Basic Genetics and Molecular Biology (2 hours) | 1 st Fall | |
| GBS 709- Basic Biological Organization (2 hours) | 1 st Fall | |
| GBS 701- Core Concepts in Research: Critical Thinking/Error Analysis (1 hr) | 1 st Fall | |
| Module Courses- Exceptions require approval of theme director | | |
| GBS 750- Intro to Physiology I (January, 2 hours) | 1 st Spring | |
| GBS 751- Intro to Physiology II (February, 2 hours) | 1 st Spring | |
| GBS 752- Intro to Pathobiology (March, 2 hours) | 1 st Spring | |
| GBS 753- Intro to Pharmacology & Toxicology (April, 2 hours) | 1 st Spring | |
| Theme Required Courses | | |
| GBSC 742.VTH- P3 Student Theme Meeting (1 hour) <i>-Attend in 1st year, but do not register</i> | Every fall & spring, 2 nd year to graduation | |
| GBS Required Courses | | |
| GRD 717- Principles of Scientific Integrity (3 hours) | 1 st Summer | |
| Grant-writing/Scientific-writing (2 hours) <i>-Course selected: GBS 716, GBS 725, GBSC 726, GRD 709</i> | | |
| Biostatistics (3 hours) <i>-Course selected: GRD 770, BST 611, BST 612, BY 755, PY 716</i> | 2 nd year | |
| Journal Clubs (1 hour) <i>-Chosen in consultation with mentor</i> | Every fall & spring, 2 nd year to graduation | |
| Three Advanced Courses (3 hours each) <i>-Chosen in consultation with mentor and thesis committee</i> | | |
| Research (Non-dissertation & Dissertation) <i>-Student must complete 24 hours total of dissertation research</i> | Every semester beyond lab rotations | |

Notes:

- Seminars- Recommended to attend, but do not register
- Students must be registered for 9 hours each semester, for a total of 27 hours per year. Equity and Diversity Scholars must register for 32 hours total per year. Any hours over must be approved by the program.
- Students must be admitted to candidacy for a minimum of 1 year before the thesis defense

Additional Theme Requirements:

- Publications: At least two first author publications
- Presentations: At least one presentation at a national or international scientific meeting per year, starting in year 2