# Scheduling and Courses of Interest to Students in GGPS

A typical schedule for the first two years of the GGPS curriculum:

## Year 1

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FALL 1</td>
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<tr>
<td>PHRM 623</td>
<td>Fundamentals of Pharmacology</td>
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<tr>
<td>BIOM 600</td>
<td>Cell Biology and Biochemistry</td>
<td>1</td>
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<tr>
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<td>SPRING 1</td>
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<tr>
<td>PHRM 699</td>
<td>Laboratory Rotation</td>
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<tr>
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## Year 2

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<td>Medical Pharmacology</td>
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<td>CAMB 532</td>
<td>Human Physiology</td>
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<td>Qualifying Examination</td>
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<td>SUMMER 2</td>
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<tr>
<td>Pharmacology</td>
<td>Thesis</td>
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### Required courses, rotations, and exam

- PHRM 623 (Fundamentals of Pharmacology), Fall 1
- BIOM 600 (Cell Biology and Biochemistry), Fall 1
- PHRM 600 (Medical Pharmacology), Fall 2
- CAMB 532 (Human Physiology), Fall 2
- One topics (seminar) course from GGPS curriculum
- Three laboratory rotations
- Qualifying Examination

### Electives

**Fall:**

- **Offered by GGPS:**
  - PHRM 532 (Introduction to Genome Science)
  - PHRM 542 (Topics in Molecular Medicine)³
  - PHRM 550 (Neuropsychopharmacology)³
  - PHRM 630 (Biorganic/Medicinal Chemistry)
  - PHRM 670 (Current Topics in Neuropharmacology)³

- **Offered by other graduate groups (selected):**
  - BIOM 510 (Case Studies in Translational Research)²
  - BMB 518 (Protein Conformation Diseases)
  - BMB 554 (Macromolecular Crystallography)
  - BMB 585 (Signaling Pathways in Cancer)
  - BMB 614 (Membrane Structural Biology)
  - BMB 619 (Protein Folding)
  - CAMB 518 (Current Topics in Ion Channels)³
  - CAMB 530 (Cell Cycle and Cancer)
  - CAMB 608 (Regulation Eukaryotic Gene Expression)
  - CAMB 610 (Molecular Basis of Gene Therapy)
  - CAMB 620 (Thematic Concepts in Develop. Biol.)³
  - CAMB 638 (Cell Death and Survival)
  - GCB 535 (Introduction to Bioinformatics)
  - IMUN 506 (Immune Mechanisms)
  - IMUN 609 (Vaccines and Immune Therapeutics)²
  - INSC 572 (Electrical Language of Cells)
  - INSC 575 (Neurobiology of Learning and Memory)
  - INSC 579 (Sypaptic Transmission)
  - INSC 595 (Behavior Neuroscience)
  - INSC 597 (Developmental Neurobiology)³

**Spring:**

- **Offered by GGPS:**
  - PHRM 510 (Neuropharmacology/Neurochemistry)
  - PHRM 570 (Principles of Cardiovascular Pharmacology)
  - PHRM 580 (Topics in Pharmacogenetics)²
  - PHRM 590 (Molecular Toxicology)
  - PHRM 632 (Cell Control by Signal Transduction)²
  - PHRM 660 (Frontiers in Cancer Pharmacology)³

- **Offered by other graduate groups (selected):**
  - BIOM 502 (Molecular Basis of Disease)
  - BIOM 555 (Control of Gene Expression)
  - CAMB 510 (Immunology for CAMB)
  - CAMB 511 (Principles of Development)
  - CAMB 512 (Cancer Genetics and Biology)
  - CAMB 550 (Genetic Principles)
  - CAMB 697 (Biology of Stem Cells)
  - INSC 573 (Systems Neuroscience)
  - INSC 593 (Structural Neurobiology)
  - INSC 600 (Neurobiology of Disease)²

¹Electives are generally lecture or literature-based courses, as listed in this document. Some students opt in this semester to take a laboratory rotation (2 c.u.) in place of two electives.
²Literature-based seminar course, which may require advanced standing and/or special permission from course director. Please preview syllabus and note prerequisites. ‘Frontiers’ courses usually require advance standing.
³Offered in odd-numbered years only.
⁴Some students opt for research in the prospective thesis lab (2 c.u.) for this semester.