Graduate Program in Neuroscience

Typical Coursework for PhD Students
Year 1 - Fall

**Required courses:**
- GC550 – Foundations in Biomedical Sciences (10)*
- NS601 – Profiles in Neuroscience (1)
- NS616 – Journal Club (1)
- NS710 – Seminar (1)
- NS610 – Research Rotation I (1)

Research Rotations credits are not added to coursework credits

Y1/Fall coursework credits = 13

*Credits in parentheses
Year 1 – Spring I

Required courses:
• NS700 – Cellular Neurophysiology (4)
• GC640 – Research Ethics (1)
• NS626 – Journal Club (1)
• NS720 – Seminar (1)
• NS620 – Research Rotation II (1)

Research Rotations credits are not added to coursework credits
Y1/Spring I coursework credits = 7
Required courses:
• NS715 – Cellular & Molecular Neuroscience (3)
• NS636 – Journal Club (1)
• NS730 – Seminar (1)
• NS630 – Research Rotation III (1)

Suggested electives:
• NSTBA – Special Topics in Neuroscience (3)

Research Rotations credits are not added to coursework credits
Y1/Spring II coursework credits = 8; Y1 subtotal coursework credits = 28
Year 2 – Fall

Required courses:
• NS616 – Journal Club (1)
• NS710 – Seminar (1)

Suggested electives:
• NS725 – Topics in Translational Neuroscience (3)
• BI612 – Topics in Protein Function and Dysfunction (2)

Y2/Fall coursework credits = 7
Year 2 – Spring I

Required courses:
- NS626 – Journal Club (1)
- NS720 – Seminar (1)
- NS690 – Neuropharmacology (3)

Suggested electives:
- NS745 – Topics in Neurodegenerative Disorders (3)

Y2/Spring I coursework credits = 8
Year 2 – Spring II

Required courses:
• NS636 – Journal Club (1)
• NS730 – Seminar (1)
• NS690 – Neuroanatomy (4)
• NS740 – Applied Statistics in Neuroscience (2)

Y2/Spring II coursework credits = 8; Y2 Subtotal coursework credits = 23; Y1+Y2 total coursework credits = 51
Important Notes I

• This Typical Coursework allows you to complete all GPN required courses. Therefore, you should be well-equipped to defend the qualifying Comprehensive Exam in the Summer of Year 2.

• The GSBS requires 54 coursework credits. This Typical Coursework is worth 51 credits. Credits from Journal Club and Seminar will allow you to complete the coursework requirement in Year 3.

• The GPN Curriculum Committee has generated an extensive up to date list of suggested elective courses. We strongly encourage you to consult this list (posted on the GPN website) when considering electives. These courses are offered by all graduate programs in the GSBS.
Important Notes II

• Course syllabi and schedules are subject to changes. To obtain detailed current information about the suggested electives, please contact the course directors (names included in the list). Identify yourself as a neuroscience student when contacting the course directors.

• Initial coursework in the first two semesters of the GPN (Y1/Fall and Y1/Spring I) can be heavy. If you have concerns/questions regarding Research Rotations during the Summer before starting GC550 or during the Y1/Fall semester, please consult the GPN Directors.

• To promote self-learning in areas not covered by the GSBS Curriculum, we also strongly encourage you to create Independent Study courses. You will need a faculty member that agrees to mentor you and approval from the Dean of the GSBS.