

**PHARMACOLOGY PROGRAM REQUIREMENTS** <http://www.cornellpharmacology.org/program/courses.html>

In the first year, students are **REQUIRED** to complete a core curriculum that includes the following courses:

Quarter I:

- PHAR 5012 01**      **Essential Principles of Pharmacology** (*One week introduction to pharmacology*)  
Dr. Inturrisi, Director along with other Pharmacology Faculty
- PHAR.5005.01**      **Principles of Pharmacology I: Chemical Biology**  
Drs. Sauve and Luo, Co-Directors
- NEUR 5005 01**      **Next-Gen Methods For Neuroscience and Pharmacology**  
Dr. John Wagner (Neuroscience), Director, Dr. Michael Kharas, Course Co-Director
- PHAR.5012.01**      **Critical Analysis of the Scientific Literature in Pharmacology**  
Drs. Jaffrey and Gross, Co-Directors
- MANDATORY COURSE:**      **Tri-Institutional Course - (Responsible Conduct of Research, RCR)**  
Dr. Randi Silver, Associate Dean

Quarter II:

- PHAR.5012.01**      **Principles of Pharmacology II: Signal Transduction**  
Drs. Jaffrey and Gross, Co-Directors
- Next-Gen Methods For Neuroscience and Pharmacology**  
Dr. John Wagner (Neuroscience), Director, Dr. Michael Kharas, Course Co-Director
- PHAR 5012 01**      **Critical Analysis of the Scientific Literature in Pharmacology**  
Dr. Jaffrey and Gross, Co-Directors

Quarter III:

- PHAR.5007.03**      **Principles of Pharmacology III: Principles and Systems Pharmacology**  
Drs. Levi and Levin, Co-Directors
- PHAR.5002.03**      **Neuropharmacology I: Genes, Drugs and Behavior**  
Dr. Toth, Director, Dr. Hochrainer, Co-Director
- PHAR.9501.03**      **Pharmacology Seminar Series**  
Dr. Rifkind, Director
- Drug Development Course: FROM MOLECULE TO PRESCRIPTION (NEW IN 2018)**  
Dr. Ignacio Rodriguez, Director & Dr. Gudas & Dr. Heller (Course Facilitators)

Quarter IV:

- PHAR.5008.04**      **Principles of Pharmacology IV: Molecular Pharmacology of Cancer**  
Drs. Li and Scheinberg, Co-Directors
- PHAR.5011.04**      **Neuropharmacology II: Neuropeptides and Pain and Drugs of Abuse**  
Drs. Inturrisi, Director
- PHAR.9501.03**      **Pharmacology Seminar Series**  
Dr. Rifkind, Director
- Drug Development Course: FROM MOLECULE TO PRESCRIPTION (NEW IN 2018)**  
Dr. Ignacio Rodriguez, Director & Dr. Gudas & Dr. Heller (Course Facilitators)

Students will also complete one 2-quarter elective and a 1-quarter required course titled, **Quantitative Biology by course director, Dr. Jason Banfelder by June of their second year.** The 2-quarter elective must be selected from the following:

- Fundamental Immunology (Qtrs. I and II)**  
                              **Gene Structure and Function (Qtrs. III and IV)**
- PHAR.5009.01**      **From Bench to Bedside: Business Fundamentals for Entrepreneurial Scientists (Qtr. I)**

**\*\*If you wish to request to take an elective not listed, you must email the program director & coordinator regarding this request\*\***