

## **Announcement of Spring 2019 Courses**

(As of: January 31, 2019)

To obtain syllabi, contact  
[dmoy@gc.cuny.edu](mailto:d moy@gc.cuny.edu)

**Electromagnetic Theory I [Class #: 61715] - PHYS 71500 [Open to all levels]**  
Graduate Center Campus Tu, Th, 9:00 am – 11:00 am Room # 6495 4.000 Credits Andrea Ferrogli

**Quantum Mechanics II [Class #: 61716] - PHYS 72600 [Open to all levels]**  
Graduate Center Campus Tu, Th, 11:30 am – 1:15 pm Room # 6495 4.000 Credits Lev Murokh

**Statistical Mechanics [Class #: 61717] - PHYS 74100 [Open to all levels]**  
Graduate Center Campus Tu, Th, 2:00 pm – 4:00 pm Room # 6495 4.000 Credits Brian Tiburzi

**Cosmology [Class #: 61718] - PHYS 76000 [Open to all levels]**  
Graduate Center Campus Fri, 1:00 pm – 4:30 pm Room # 5212 4.000 Credits Ari Maller

**Nano and Micro Photonics [Class #: 61719] - PHYS 81700 [Open to 2nd year or higher]**  
Graduate Center Campus M, 2:00 pm – 5:30 pm Room # 9116 4.000 Credits Vinod Menon

**Quantum Theory of Fields II [Class #: 61720] - PHYS 82600 [Open to 2nd year or higher]**  
Graduate Center Campus W, 1:15 pm – 4:30 pm Room # 6495 4.000 Credits Adrian Dumitru

**Quantum Information [Class #: 61721] - PHYS 83100 [Open to 2nd year or higher]**  
Graduate Center Campus W, 10:00 am – 1:00 pm Room # 6495 4.000 Credits Janos Bergou

**Quantum Theory of Solids I [Class #: 61722] - PHYS 84500 [Open to 2nd year or higher]**  
Graduate Center Campus Th, 10:00 am – 1:45 pm Room # 4419 4.000 Credits Neepa Maitra

**Magnetism & Superconductivity of Solids [Class #: 61723] - PHYS 85200**  
[Open to all levels]  
Graduate Center Campus M, 10:30 am – 1:30 pm Room # 4419 4.000 Credits Eugene Chudnovsky

**Metamaterials [Class #: 61725] - PHYS 85200 [Open to 2nd year or higher]**  
Advanced Science Research Center Campus  
Tu, 4:30 pm – 7:30 pm Room # 2.210 4.000 Credits Andrea Alù  
[Open to students in Chemistry, Biochemistry, Engineering, and Mathematics]

**Introduction to Machine Learning for Scientists [Class #: 61726] - PHYS 85200**  
[Open to 2nd year or higher]  
Graduate Center Campus W, 4:35 pm – 7:20 pm Room # 5417 3.000 Credits David Schwab  
[Course is offered by Biology Ph.D. Program as Biology 79303]

**Research Rotation II [Class #: 61724] - PHYS 85600 [Open to 1<sup>st</sup>-year Physics students only]**  
Graduate Center Campus [Rotation instructors and schedule to be determined]  
3.000 Credits Sultan Catto  
[1<sup>st</sup>-year Physics students are required to take this course; Grading is Pass/Fail]

**Independent Study - PHYS 89900 [Open to Physics students in 2nd year or higher only]**  
Graduate Center Campus 1.000 – 4.000 Credits  
[Open to Physics students with less than 60.0 cumulative credits; Limited to 1 Independent Study course per semester; Requires permission of Executive Officer; Schedule determined between instructor and student]

**Dissertation Supervision - PHYS 90000 [Open to Level 3 Physics students only]**