

Ph.D. Program in Physics

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Courses are Taught in-person



## Announcement of Spring 2022 Courses

(Revised November 16, 2021)

tba = to be announced

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

**Electromagnetic Theory I [Class #60489] - PHYS 71500 [Open to all levels]**  
Graduate Center campus Tu, Th, 2:00 pm – 4:00 pm Room # tba 4.000 Credits Timothy Boyer

**Quantum Mechanics II [Class #60490] - PHYS 72600 [Open to all levels]**  
Graduate Center campus Tu, Th, 9:00 am – 11:00 am Room # tba 4.000 Credits Peter Orland

**Statistical Mechanics [Class #60491] - PHYS 74100 [Open to all levels]**  
Graduate Center campus Tu, Th, 11:15 am – 1:00 pm Room # tba 4.000 Credits Anatoly Kuklov

**Quantum Theory of Fields II [Class #60492] - PHYS 82600 [Open to 2nd year or higher]**  
Graduate Center campus W, 9:30 am – 12:30 pm Room # tba 4.000 Credits Daniel Kabat

**Quantum Theory of Solids I [Class #60494] - PHYS 84500 [Open to 2nd year or higher]**  
Graduate Center campus M, 9:30 am – 12:30 pm Room # tba 4.000 Credits Godfrey Gumbs

**General Relativity and Black Holes [Class #60497] - PHYS 85200 [Open to all levels]**  
Graduate Center campus W, 1:00 pm – 4:00 pm Room # tba 4.000 Credits Vladimir Rosenhaus

**2 Dimensional Materials [Class #60496] - PHYS 85200 [Open to 2nd year or higher]**  
Graduate Center campus M, 1:00 pm – 4:00 pm Room # tba 4.000 Credits Gabriele Grosso  
[Open to students in Physics, Chemistry, Engineering and Material Science]

**Nanofabrication and Nanodevices [Class #60499] - PHYS 77400 [Open to 2nd year or higher]**  
Graduate Center Advanced Science Research Center (uptown campus)  
F, 11:00 am – 2:00 pm 4.000 Credits Milan Begliarbekov  
ASRC room # 5.210  
[Cross-listed with M.S. Nanoscience program as NANO 79000]  
[Open to students in Physics, Chemistry and Engineering]

**Research Rotation II [Class #60498] - 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 Alexios Polychronakos  
[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 is determined between instructor and student]

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

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