

Ph.D. Program in Physics

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<http://www.gc.cuny.edu>

Courses are taught in-person
except when noted



Announcement of Spring 2023 Courses

(As of: February 16, 2023)

To obtain syllabi contact:
dmoy@gc.cuny.edu

Electromagnetic Theory I [Class #56803] - PHYS 71500 [Open to all levels]
Graduate Center campus Tu, Th, 2:00 pm – 4:00 pm Room # 6496 4.000 Credits Timothy Boyer

Quantum Mechanics II [Class #56848] - PHYS 72600 [Open to all levels]
Graduate Center campus Tu, Th, 9:00 am – 11:00 am Room # 6496 4.000 Credits Peter Orland

Statistical Mechanics [Class #56851] - PHYS 74100 [Open to all levels]
Graduate Center campus Tu, Th, 11:15 am – 1:00 pm Room # 6496 4.000 Credits Anatoly Kuklov

Astrophysics I [Class #56852] - PHYS 75700 [Open to all levels]
Graduate Center campus F, 12:40 pm – 4:00 pm Room # 3207 4.000 Credits Tim Paglione

Geometry and Symmetry in Physics [Class #56908] - PHYS 85200
[Open to 2nd year or higher]
Graduate Center campus M, 11:45 am – 2:45 pm Room # 6495 4.000 Credits V. Parameswaran Nair

Special Topics in Quantum Field Theory [Class #56911] - PHYS 85200 [Open to all levels]
Graduate Center campus W, 1:00 pm – 4:00 pm Room # 6421 1.000 Credit Vladimir Rosenhaus

HYBRID format

1st class meeting: April 12, 2023

Photonics II – Quantum Optics [Class #56916] - PHYS 85200 [Open to 2nd year or higher]
Graduate Center Advanced Science Research Center (at uptown GC campus at the City College of New York)
W, 9:30 am – 12:00 pm GC ASRC 5th floor Data Visualization room 3.000 Credits Gabriele Grosso
[Open to all levels, students in Physics, Chemistry, Engineering and Material Science]

Frontiers in Photonics [Class #56917] - PHYS 85200 [Open to 2nd year or higher]
Graduate Center Advanced Science Research Center (at uptown GC campus at the City College of New York)
F, 10:00 am – 12:30 pm GC ASRC Room #2.322 & Auditorium #1.220 3.000 Credits Andrea Alu
[Open to all levels, students in Physics, Chemistry, Engineering and Material Science]

Machine Learning for Physics and Astronomy [Class #56913] - PHYS 85200
[Open to level I & II]
Graduate Center campus Tu, Th, 10:00 am 11:40 am Room # 3207 4.000 Credits Viviana Acquaviva
[Open to students in Physics doctoral and Master's Astrophysics programs; No auditors allowed]

Research Rotation II [Class #56853] - PHYS 85600 [Open to 1st-year Physics students only]
Graduate Center campus [Rotation instructors and schedule to be determined]
3.000 Credits Alexios Polychronakos
[1st-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]