

## **Announcement of Fall 2018 Courses**

(As of September 5, 2018)

Syllabi will be available  
in summer 2018.

**Mathematical Methods in Physics [Class # 64096] – PHYS 70100 [Open to all levels]**  
Graduate Center Campus M, W 11:15 am – 1:00 pm Room # 6495 4.000 Credits Sarang Gopalakrishnan

**Analytical Dynamics [Class # 64097] – PHYS 71100 [Open to all levels]**  
Graduate Center Campus M, W 9:00 am – 10:55 am Room # 6495 4.000 Credits Peter Orland

**Electromagnetic Theory II [Class # 64099] – PHYS 71600 [Open to all levels]**  
Graduate Center Campus Tu, Th 12:45 pm - 2:45 pm Room # 3207 (Tu), #9116 (Th) 4.000 Credits  
Timothy Boyer

**Quantum Mechanics I [Class # 64098] – PHYS 72500 [Open to all levels]**  
Graduate Center Campus M, W 2:10 pm - 3:55 pm Room # 6495 4.000 Credits Giovanni Ossola

**Particle Physics [Class # 64104] – PHYS 73600 [Open to all levels]**  
Graduate Center Campus F 12:10 pm – 4:00 pm Room # 6114 4.000 Credits James Popp

**Solid State Physics [Class # 64103] – PHYS 74500 [Open to all levels]**  
Graduate Center Campus Th 3:00 pm - 6:15 pm Room # 3209 4.000 Credits Karl Sandeman

**Astrophysics [Class # 64105] – PHYS 75700 [Open to all levels]**  
Graduate Center Campus F 12:45 pm – 4:00 pm Room # 7314 4.000 Credits Tim Paglione

**Quantum Theory of Fields I [Class # 64101] – PHYS 82500 [Open to 2<sup>nd</sup> year or higher]**  
Graduate Center Campus W 10:00 am – 2:00 pm Room # 5382 4.000 Credits Efrain Ferrer

**Quantum Theory of Solids II [Class # 64102] – PHYS 84600 [Open to 2<sup>nd</sup> year or higher]**  
Graduate Center Campus Th 9:30 am – 12:30 pm Room # 5382 4.000 Credits Godfrey Gumbs

**Physics of Semiconductors – Selected Topics [Class # 64100] – PHYS 85100**  
[Open to 2<sup>nd</sup> year or higher]  
Graduate Center Campus M, W 2:20 pm – 4:00 pm Room # 4419 4.000 Credits Mim Lal Nakarmi

**Survey of Research Opportunities at CUNY [Class # 64108] – PHYS 85400**  
[Open to 1<sup>st</sup>-year physics students only]  
Graduate Center Campus F 9:30 am – 12:00 pm Room # 5383 3.000 Credits Azriel Genack  
[1st-year students are required to take this course; Grading is Pass/Fail]

**Research Rotation I [Class # 64106] – PHYS 85500 [Open to 1<sup>st</sup>-year physics students only]**  
Graduate Center Campus [rotation faculty and schedules to be announced] 1.000 Credits Sultan Catto  
[1st-year students are required to take this course; Grading is Pass/Fail]

**Independent Study – PHYS 89900 [Open to Level I and II Physics students only]**  
Graduate Center Campus 1.000 – 4.000 Credits  
[Physics students are limited to 1 Independent Study course per semester, requires permission of instructor and open to students with less than 60 total credits]

**Dissertation Supervision – PHYS 90000 [Open to Level III Physics students only]**