

PHOTOVOLTAICS, GRADUATE CERTIFICATE

Required courses:

Code	Title	Hours
PHYS 6280	Photovoltaic Materials And Device Physics Laboratory	3
PHYS 6630	Semiconductors I	3
PHYS 6640	Fundamentals of Solar Cells	3
Take one elective course of:		3
PHYS 6250	Classical Electrodynamics I	
PHYS 6320	Quantum Mechanics I	
PHYS 6450	Statistical Mechanics	
PHYS 6980	Special Topics	
Total Hours		12

- Demonstrate an understanding of foundational concepts in chemistry, physics, and engineering as applied to photovoltaics.
- Demonstrate an understanding of the PV materials and devices, including optical, electrical, structural, and defect properties, phase transformations, and growth, materials characterization, device working principle, or applications.
- Communicate technical information clearly and accurately in written, oral, and visual formats.
- Locate and use information in the primary literature and research databases.
- Critically read, assess, and evaluate scientific publications, presentations, and data.
- Understand and observe proper safety, ethical, and professional practices.
- Apply scientific skills in an interdisciplinary scientific context.