

Photonics Certificate

www.PhysAst.Pitt.edu/~Snoke/Photonics Revised: 06/2017

Overview

University of Pittsburgh students may sign up for the program at any time. They may have any major, but the program fits most naturally with majors in Physics, Chemistry, or Electrical Engineering. As parting Tc 0 they take courses in the departments which will fulfill requirements in their own departments up departments which will fulfill requirements in their own departments up departments which will fulfill requirements in their own departments which will fulfill requirements in their own departments which will fulfill requirements in their own departments which will fulfill requirements in the departments which will fulfill requirements in the department of the depa

Laboratory courses

Choose one course in each of the following groups CHEM 0250 Analytical Chemistry with Lab 1 and CHEM 0260 Analytical Chemistry with Lab 2 PHYS 0219 Basic Laboratory Techniques PHYS 0577 Modern Physical Measurement EE 0501 Digital Systems Lab CHEM 1255 Instruments Lab and CHEM 1430 Physical Chemistry Lab PHYS 0525 Electronics Lab EE 1201 Electronics Lab 1 and EE 1212 Electronics Lab 2

Advanced courses

PHYS 1361 Waves and Optics Lab EE 1247 Semiconductor Devices EE 1232 Lasers and Optronics

One of the following groups

CHEM 1410 Physical Chemistry: Quantum Mechanics and Spectrscopy PHYS 1370 Introduction to Quantum Mechanics 1 and PHYS 1371 Introduction to Quantum Mechanics 2

Two of the following courses or sequences

PHYS 1351 Electricity and Magnetism or EE 1259 Electromagnetics 1 and EE 1266 Applications of Fields and Waves

CHEM 1250 Instrumental Analysis TELCOM 2222 Photonic Communication

Two of the following courses PHYS 1374 Solid State Physics

CHEM 1620 Atoms, Molecules, and Materials MEMS 1057 Micro/Nano Manufacturing

Grade Requirements

A minimum GPA of 2.0 is required in each course that counts toward the certificate.

Satisfactory/No Credit Option

No course that counts toward this certificate may be taken on the S/NC basis.