

SCHOOL OF
PHYSICS



THE UNIVERSITY OF
SYDNEY

PHOTONICS AND OPTICAL SCIENCE

POSTGRADUATE COURSEWORK DEGREES

PHOTONICS AND OPTICAL SCIENCE

Move your career at light speed into photonics, the technology that underpins the communications revolution and major advances in defense, medicine, and energy.

Prepare yourself for an exciting career at the forefront of technology in:

- telecommunications
- scientific or astronomical instrumentation
- mineral exploration
- advanced manufacturing technologies
- defence

These courses provide training and in-depth knowledge in the theory and application of photonics, imaging and optical science, engineering and technology.

The University of Sydney has an international reputation for research excellence in photonics, astronomy and quantum optics.

You will learn from world experts in the School of Physics, Electrical Engineering, from the Electron Microscope Unit, and our Industry Partners.

You will carry out projects in the state of the art experimental laboratories of the internationally renowned ARC Centre of Excellence in Ultrahigh bandwidth Devices for Optical Systems (CUDOS).

In addition to world-class facilities and teaching, the University's students benefit from the campus' central location in Sydney, one of the world's great multicultural cities with beaches, nightlife, dining, and superb weather.

FOR MORE INFORMATION CONTACT:

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<http://sydney.edu.au/science/photonics/>

Graduate Diploma:

Two semesters of coursework (one year full time). 48 credit points.

Masters:

Completion of Graduate Diploma (48 credit points) followed by a research project lasting one semester of 24 additional credit points (3 semesters, 72 credit points, total). The coursework program may be done part-time.

General information:

sydney.edu.au/science/photonics/

General info for intl students:

sydney.edu.au/internationaloffice/

Fees for 2011:

Local students:

AUD 420 per credit point

International students:

AUD 15 480 per semester

Syllabus:

Nanophotonics design and fabrication

Biophotonics

Quantum Optics

Optics and diffraction theory

Nonlinear fiber and waveguide optics

Project management

Photonics in Industry

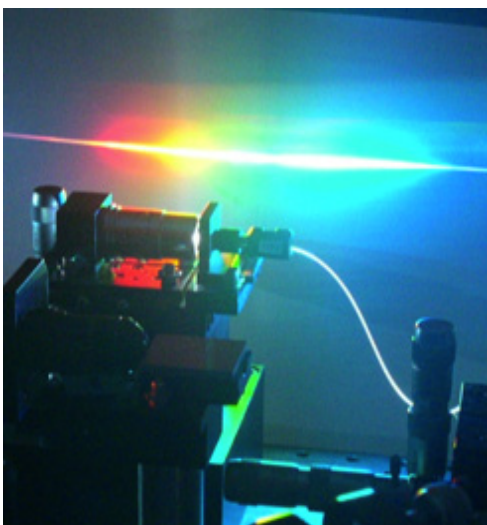
Lasers and detectors

Photonic communication systems

Photonic materials

Optical fiber fabrication

And much more!



The Institute for Photonics and Optical Science links research and postgraduate teaching programs across the Faculties of Science and Engineering at the University of Sydney to create a world class centre. sydney.edu.au/ipos