

Bachelor of Science

Photonic Science & Engineering



PROGRAM HIGHLIGHTS:

- High Demand for Photonic Engineers
- Small Class Sizes
- World Renowned Faculty

COURSEWORK INCLUDES:

- Electrical Networks
- Electronics
- Geometric Optics
- Wave Nature of Light
- Laser Engineering
- Optoelectronics
- Fiber Optic Communications
- Senior Design

Check out the program requirements in the UCF catalog at <http://catalog.ucf.edu>

Light Makes Modern Technologies Possible

Think about where you see the use of light in daily life - from the displays on your cell phone to the sophisticated technology needed to make the smartphone “smart”, photonics uses light to transmit, transfer, and store information.

It’s an enabling technology, finding application is almost every industry and in many consumer products: Energy efficient lighting, cameras, satellite imagery, additive manufacturing, laser surgery, sensing, communication, entertainment, and much more.

Photonic Engineers apply scientific principles, incorporate light-based technologies, and exhibit creativity to solve problems that benefit society.

The College of Engineering and Computer Science and CREOL, The College of Optics and Photonics collaborate to offer the B.S. in Photonic Science and Engineering, the only such program in Florida.

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EMPLOYMENT OPPORTUNITIES

Photonic Engineers design high efficiency lighting, displays, and solar power systems. They engineer the high speed fiber optic networks forming the backbone of the Internet. They create the foundation for the medical applications in clinical diagnosis, surgery, and genome mapping.

Our engineers are often called optical or photonic engineers and can be employed in such diverse companies as:

- Lockheed Corp.
- Northrop Grumman
- Harris Corp.
- Corning
- Boeing
- Apple
- Google
- Open Photonics
- Ocean Optics
- 35,000+ other companies in the US

FOR MORE INFORMATION:

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Fiber Optic Draw Tower at UCF

Get Involved at UCF

Undergraduates are encouraged to join the **Society of Optics Students** as well as our graduate student chapters representing OSA, SPIE, SID and IEEE Photonics. In addition, there are many opportunities for undergraduate research and internships.

