



UCF Online



UCF

ONLINE MASTER OF SCIENCE OPTICS AND PHOTONICS

APPLICATION DEADLINES

FALL PRIORITY

JANUARY 15

FALL

JULY 1

SPRING

DECEMBER 1

SUMMER

APRIL 1

Application deadlines subject to change without notice, see graduate catalog for up-to-date deadlines.
<http://catalog.ucf.edu/>

PROGRAM AT A GLANCE

- **Full-time and part-time, self-paced, options.** Specialized coaching and tutoring for online students is provided.
- **Highly ranked graduate program** in optical physics by *U.S. News & World Reports*.
- Graduates are in **high demand** by innovative companies such as **Apple, Microsoft, Google, and Facebook**, as well as aerospace and defense companies, and DoD research labs.
- **Over 300 patents** have been produced from CREOL facilities and 26 companies have started and incubated at CREOL's research labs.

WELCOME

CREOL, The College of Optics & Photonics now offers a fully online master's degree in Optics & Photonics. Online students have access to the same faculty and resources as UCF campus-based students, as well as additional support provided specifically to address the additional needs of online students.

CREOL is a world leader in education, research, and industrial partnership. Optics and photonics is the science and technology of light: lasers, LEDs, LCDs, fiber optics, sensors, and imaging systems for applications in industry and medicine.

CREOL faculty, scientists and students pioneer collaborative and multi-disciplinary research that enables impactful technologies for widespread and cross-cutting applications. The college is an exciting place for students to have an outstanding educational experience to interact with world-leading researchers in a broad spectrum of programs covering materials, devices, and systems, using technologies including lasers, optical fibers, optoelectronics and integrated photonics, nonlinear and quantum optics, as well as imaging, sensing and display. These technologies have widespread applications in manufacturing, communication, biology and medicine, energy and lighting, aerospace, and defense.

Join us and start your journey toward becoming a leader in the rapidly-growing photonics industry and a brighter future.

Best Regards,

Dr. Jim Moharam
Graduate Program Interim Associate Dean



ONLINE MASTER OF SCIENCE OPTICS AND PHOTONICS

FACULTY PROFILE



Dr. Peter Delfyett
University Trustee Chair,
Pegasus Professor of
Optics & Photonics,
Director of Townes Laser Institute

Peter Delfyett earned his Electrical Engineering PhD in 1987 from The Graduate School & University Center of the City University of New York. Peter joined CREOL in 1993 and has been recognized for countless awards and honors in the field. In 2021, he received the APS Schawlow Prize and was inducted into the National Academy of Engineering, the highest honor a scientist or engineer can receive. In his leisure time, Dr. Delfyett enjoys dancing salsa and even competes with a team!

CURRICULUM

Core Courses: 9 Credit Hours

OSE 5115 Interference and Diffraction - 3 CH
OSE 6111 Optical Wave Propagation - 3 CH
OSE 5525 Laser Engineering or OSE 6536 Semiconductor Lasers - 3 CH

Elective Courses: 21 Credit Hours

Example of Elective Course Offerings:

OSE 5203 Geometrical Optics - 3 CH
OSE 5312 Light Matter Interaction - 3 CH
OSE 5414 Fundamentals of Optoelectronic Devices - 3 CH
OSE 6143 Fiber Optics Communication - 3 CH
OSE 6211 Imaging and Optical Systems - 3 CH
OSE 6265 Optical Systems Design - 3 CH
OSE 6313 Materials for Optical Systems - 3 CH
OSE 6421 Integrated Photonics - 3 CH
OSE 6474 Fundamentals of Optical Fiber Communications - 3 CH
OSE 6938 Infrared Systems - 3 CH

ADMISSIONS REQUIREMENTS

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- A **GRE score is not required** for admission to the Optics and Photonics MS Program.
- Statement of Purpose: a brief, 1-2 page statement about educational, research, and long-term professional career objectives.
- Up to 3 letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

PROGRAM TUITION

IN STATE
\$327.32 per credit hour

OUT OF STATE
\$1,151.72 per credit hour

Current Graduate Tuition and Fee Rates as of Fall 2020

PROGRAM CONTACT

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