

# **Special Topics in Optics**

UNDERGRADUATE SUMMER SCHOOL (3-WEEK ONLINE PROGRAM)
JULY 29 - AUGUST 20, 2021



# **Program Schedule**

Week 1 TEACHING ASSISTANT (TA) LED

**READING WEEK** 

Week 2 LECTURES & TA LED Q&A

Week 3 FINAL PROJECT & PROGRAM

**WRAP-UP** 

TEACHING ASSISTANTS WILL SUPPORT A 1-HOUR DISCUSSION DAILY FOR BOTH READING AND LECTURE WEEK.

# Program Fee: \$750

Department of Electrical and Computer Engineering Rankings

**#3 Graduate Program,** Computer Engineering **#4 Graduate Program,** Electrical Engineering

# **Online Format**

Synchronous videoconference lectures, with assignments and group projects completed asynchronously.

### **Connect with Us**

https://www.get.illinois.edu



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伊利诺伊大学全球教育与培训



Access to Wi-Fi and a device (computer, laptop, or tablet)

Technology Requirements

suitable for participation in online videoconference sessions.

### UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN FACULTY



#### **PETER DRAGIC**

Assistant Professor, Department of Electrical and Computer Engineering

Professor Dragic leads the Fiber Optics Research & Glass Engineering Lab. His research and design methodology of optical fibers relies heavily on a highly interdisciplinary approach that marries waveguide engineering and materials science. His research areas include coherent optics/imaging, lasers and optical physics, modeling and simulation of laser systems, nano-materials, nano-photonics, etc.

# Program Topics

## **WORKSHOP SERIES IN OPTICS (10 HOURS)**

- Current status & research areas in Optics and Photonics
- · Optical communications
- Optical fiber technologies
- Imaging (bio and/or others)
- Optical sensors

## **TA-LED DISCUSSION SESSIONS (9 HOURS)**

A UIUC graduate student will lead discussions and answer questions during reading week and seminar week. Readings and discussions will further the students' knowledge and understanding of the course content.

#### **Co-Curricular Sessions (4 HOURS)**

Enriching students' experiences by providing interactive resources for planning their overseas U.S. education.

- Q&A with PhD student: graduate applications & research skills; writing academic research reports
- Graduate College: how to be a successful graduate student
- Career Services: intercultural communication and personal branding
- Program recognition & learning outcome showcase, led by University of Illinois & GET staff members

There will be an additional 7 hours combined for program orientation, preparation and presentations of student final projects, and the program closing ceremony.

### **Program Details**

Students must be entering second year of college or later. Instruction equips students with research methods and preparation to complete projects.

Students are expected to participate in live discussions and problem solving during each live class session.

- All classes in English
- 30 hours of engagement
- Quizzes and final project required
- Certificates awarded upon completion
- Course times 8:00 a.m. 11:00 a.m. local China time
- Classes Monday through Friday

### **CONTACT OUR TEAM**

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