



UNIVERSITY OF
ILLINOIS
URBANA - CHAMPAIGN



SPECIAL TOPICS IN OPTICS

GLOBAL EDUCATION & TRAINING

Undergraduate Summer Online Course

July 20 - August 11, 2023

Global Education and Training's Optics Undergraduate Summer Online Course at the University of Illinois Urbana Champaign offers students an innovative introduction to the current research areas in Optics and Photonics. Learn more about these emergent technologies from expert faculty, who will lead students in a live online classroom space. Students are expected to participate in live discussions and problem solving during each live class session. The Optics summer online course offers a multidisciplinary approach to leading research in Optics and Communication Systems. This course will prepare students for the next phase in their education, and career.

GET is offering this program in collaboration with faculty from the Grainger College of Engineering, a global leader in engineering education and research across every discipline. The college emphasizes cutting-edge theory coupled with high-impact engineering research and hands-on learning.

FACULTY PROFILE



Professor Peter Dragic is an associate professor in the Department of Electrical and Computer Engineering, Grainger College of Engineering at the University of Illinois Urbana-Champaign, where he 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. For more information, visit his profile on the [ECE website](#).

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UNDERGRADUATE ELECTRICAL
ENGINEERING PROGRAM

#6

UNDERGRADUATE
ENGINEERING PROGRAM

#10

GRADUATE
ENGINEERING PROGRAM

#15

NATIONAL U.S.
PUBLIC UNIVERSITY

#22

CENTER FOR WORLD
UNIVERSITY RANKINGS

PROGRAM COMPONENTS

Academic Sessions (24 Hours)

Online synchronous academic sessions with faculty lectures, discussions, Q&A sessions, and research project. Lectures cover topics of optics and photonics, optical communications, optical fiber technologies, imaging, and optical sensors. Teaching assistants guide students' understanding by highlighting key points from the readings and answering questions. The overall course will conclude with a learning outcome showcase and a course recognition ceremony led by University of Illinois staff.

Co-Curricular Sessions (6 Hours)

Online co-curricular sessions diversify students' learning experiences and outcomes through guest speaker/panelist sessions with university Ph.D. students and alumni. Topics include applications and graduate admissions processes; writing personal statements; conducting research; keys to a successful engineering career; and more. These sessions include online synchronous meetings during Week 0 for an orientation and technology testing.

Offline Learning Sessions (30 Hours)

Students are expected to devote two hours a day to offline learning activities such as reading assignments, homework, discussions, and the final research project.

Week Overview (China Dates)	Activity	Duration (50 minutes)
Orientation Week: Week 0 (July 20-21)	Technology Testing	1
	Orientation	1
	Co-curricular session	1
Reading Week: Week 1 (July 24-28)	TA-led discussions	4
	Co-curricular session	1
Lecture Week: Week 2 (July 31 - Aug 4)	Lecture series	10
	TA-led Q&A	5
Final Project Week: Week 3 (Aug 7 - 11)	Co-curricular session	2
	TA-led Q&A	2
	Final Presentations	2
	Program Recognition	1

Total: 30 hours

TECHNOLOGY REQUIREMENTS

Participants should have access to Wi-Fi and a device (computer, laptop, or tablet) suitable for participation in online videoconference sessions. Participants may connect to the class sessions from their own home or another location with Wi-Fi, such as a university office.

ONLINE FORMAT

Synchronous videoconference course meetings from 9:00 a.m. - 11:00 a.m., TA-led Q&A 9:00 - 10:00 p.m. local China time.

COURSE FEE: \$750.00/PERSON

Includes tuition for development and instruction of online courses, assessment (grading) of participant performance in courses, access to online Learning Management System, videoconference system license; and university technology support fees.

Minimum of 50 participants needed to run program.

Apply Now

Deadline to apply is April 15th

Please direct questions to Global Education and Training staff via email:

Rob Marinelli,
Associate Director
remarine@illinois.edu

Wendy Spencer,
Program Coordinator
wendyas2@illinois.edu

Wang Nianhua,
China Training Programs Representative
nianhua@yahoo.com

Please reach out to your university's international office to apply for the program.

Student Testimonials

"The course is fantastic. I really appreciate it that the course could lead us from what we've learned to deeper knowledge naturally."

"I really appreciate the professor's expertise. He is really a kind person and really an expert."

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