



STEM

Science, Technology,
Engineering, and
Mathematics

LASER AND PHOTONICS TECHNOLOGY

ABOUT THE PROGRAM

The Laser & Photonics Technology (LPT) program teaches students how to control light and electrical energy to prepare them for careers in photonics and electronics engineering technology. These high-tech, high-paying career tracks include the research, design, manufacture, sale, and field service of products, like in the rapid-growing field of lasers. Jobs include working on engineering teams to build, test and troubleshoot designs in areas like laser weapon systems, medical instruments, detection equipment, laser fusion energy sources, fiber telecommunications, and industrial laser systems. Acquired LPT technical knowledge and problem-solving skills create valuable graduates for these fields.



Possible Employment In Industry

Optical Technician
Optical/Laser Optics Research Technician
Electronics Technician
Laser and Optics Repair Technician
Field Service Technician



Top Employers In Region

Wolfspeed
Cree Lighting
Wasatch Photonics
3Shape



Occupational Statistics

MEDIAN SALARY:

\$65,260 annually
(Electrical and Electronics Engineering
Technician)



CCCC Career Community

Students in the STEM career community enjoy logic challenges and problem solving, and they may be hands-on or theoretical in their approach. These students think critically and analytically and are detail-oriented. They may be interested in using technology to make processes more efficient. STEM students enjoy classes in mathematics and/or natural sciences. Graduates are employed in a wide range of careers such as technicians, computer programmers, scientists, engineers, and teachers.



CENTRAL CAROLINA
COMMUNITY COLLEGE

www.cccc.edu



Degrees

Associate in Applied Science in Laser and Photonics Technology (A40280; Harnett Main Campus - day; Lee Main Campus - First Semester Only) Five Semesters (Summer Included)



Diplomas

None



Certificates

Electronics Engineering Technology (C40200; Lee Main Campus - Day, Harnett Main Campus - Day) - Three Semesters (Summer included)



Transfer Options

East Carolina University
University of North Carolina Charlotte
Contact the program lead below to discuss transfer options further.



Additional Program Costs



State Licensure/Exams/ Industry Certifications

None



Additional Admissions Process

None



Skills In Demand For Program And Industry

Basic Algebra Skills
Attention to Detail
Critical and Independent Thinking Skills



Work-Based Learning Information

None



To find all program planning guides, contact information, and more, scan the QR code or visit www.cccc.edu/programs