



## 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.



## 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.



## 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)



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## 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](http://www.cccc.edu/programs)