OPTICAL TECHNOLOGY, CERTIFICATE OF PROFICIENCY

A student who receives a one-year certificate can work in a retail outlet, optical laboratory or a doctor's office. Other career paths can lead to related work as a sales representative for optical products. Note: In order to be eligible to take the State Board Exam for licensure, you must finish the Optical Technology degree program.

Program contact: Learn more

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more about how certificate credits apply to the related degree.

Program Admission Requirements

Application may be submitted to the Health Careers Enrollment Center after meeting the following requirements:

- High School Diploma/GED
- ENG-0995 Applied College Literacies or appropriate score on English Placement Test.
- MATH-0955 Beginning Algebra or MATH-0990 Math Literacy for College Students or appropriate score on Math Placement Test.
- OPT-1100 Introduction to Optical Technology
- 2.0 GPA

Other Information

- 10 students accepted per year

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Communicate verbally and in writing to clients, colleagues, and other professionals.
2. Design eyewear by combining accurate physiognomic measurements with knowledge of ocular anatomy, geometric optics and prescription analysis.
3. Demonstrate proficiency in the operation and function of equipment and tools used in the fabrication and verification of eyewear.
4. Perform all tasks associated with the fitting and dispensing of eyewear.
5. Apply knowledge of ocular physiology and of local, state and federal guidelines in order to maintain accurate medical records.
6. Demonstrate an understanding of the ophthalmic profession and optical manufacturing process.
7. Work within the safety standards that govern opticianry.
8. Discuss Ohio and national statutes that govern opticianry.
9. Conduct him/herself in a professional manner at all times.

Suggested Semester Sequence

Summer Start		**Credit Hours**
OPT-1100	Introduction to Optical Technology	1
MATH-1xxx	1000-level MATH course or higher	3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
	Credit Hours	7
First Semester		
BIO-1230	Anatomy and Physiology of the Eye	4
OPT-1310	Theoretical Optics I	2
OPT-1400	Introduction to Fabrication Principles	1
OPT-1411	Basic Spectacle Fabrication	1
OPT-1510	Optical Dispensing I	3
OPT-1610	Contact Lens I	2
	Credit Hours	13
Second Semester		
OPT-1320	Theoretical Optics II	2
OPT-1421	Advanced Spectacle Fabrication	1
OPT-1520	Optical Dispensing II	3
OPT-1621	Contact Lens II	2
PHYS-1300	Physics of Optical Materials	4
	Credit Hours	12
	Total Credit Hours	32