

OPTICAL TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE



There will be no new students accepted in the program for Academic year 2024-2025. Current students should reach out to an academic counselor to create an academic plan to complete their remaining optical technology courses by the end of Summer 2025 semester.

Dispensing opticians are those professionals who fit eyeglasses or contact lenses as prescribed by an Ophthalmologist or Optometrist. These professionals analyze prescriptions along with the patient's occupation and habits in order to make recommendations about lenses and spectacle frames. Licensed opticians may work in retail, laboratory, or private practice settings.

Program contact: Learn more

This degree program contains one or more embedded certificates which will be automatically awarded when the certificate requirements are completed. If you do not want to receive the embedded certificate(s), please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

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Program Learning Outcomes

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

- Communicate verbally and in writing to clients, colleagues, and other professionals.
- Design eyewear by combining accurate physiognomic measurements with knowledge of ocular anatomy, geometric optics and prescription analysis.
- Demonstrate proficiency in the operation and function of equipment and tools used in the fabrication and verification of eyewear.
- Perform all tasks associated with the fitting and dispensing of eyewear.
- Apply knowledge of ocular physiology and of local, state and federal guidelines in order to maintain accurate medical records.
- Demonstrate an understanding of the ophthalmic profession and optical manufacturing process.
- Work within the safety standards that govern opticianry.

- Discuss Ohio and national statutes that govern opticianry.
- Conduct him/herself in a professional manner at all times.

Suggested Semester Sequence

Summer Start		Credit Hours
MATH-1190	Algebraic and Quantitative Reasoning (or Any Approved Ohio Transfer 36 Mathematics course) ¹	3
OPT-1100	Introduction to Optical Technology	1
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Select one of the following:		3
PSY-1010	General Psychology	
PSY-101H	Honors General Psychology	
Credit Hours		10
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
Third Semester		
OPT-1710	Introduction to Patient Care	3
OPT-2501	Optical Business	3
OPT-2550	Advanced Optical Dispensing Lab	1
OPT-2620	Advanced Contact Lens Theory	1
OPT-2650	License Review Spectacle	1
OPT-2940	Optical Field Experience I	2
OPT-2972	Optical Field Experience Seminar I	2
Credit Hours		13
Fourth Semester		
OPT-2660	License Review Contact Lens	1
OPT-2702	Refractometry	2
OPT-2950	Optical Field Experience II	2
OPT-2982	Optical Field Experience Seminar II	2
Select one of the following:		3
ENG-1020	College Composition II	
ENG-102H	Honors College Composition II	
COMM-1010	Fundamentals of Speech Communication	
COMM-101H	Honors Speech Communication	
Select one of the following:		3

PHIL-2050	Bioethics	
PHIL-205H	Honors Bioethics	
Credit Hours		13
Total Credit Hours		61

¹ MATH-1100 Mathematical Explorations or MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet mathematics requirement for this program.

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.