OPT-2940: Optical Field Experience I

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OPT-2940: OPTICAL FIELD EXPERIENCE I

Cuyahoga Community College

Viewing: OPT-2940: Optical Field Experience I

Board of Trustees: December 2021

Academic Term:

Fall 2022

Subject Code

OPT - Optical Technology

Course Number:

2940

Title:

Optical Field Experience I

Catalog Description:

Supervised field experience in an ophthalmic health care setting designed to emphasize role of dispensing optician. Students gain exposure to professional practice through direct supervision by a licensed optician. Expect students to demonstrate advancing assessment skills and assume more individual responsibility as member of an ophthalmic department.

Credit Hour(s):

2

Other Hour(s):

384

Other Hour Details:

Field Experience: 24 hours per week for 16 Weeks (384 hours per semester)

Requisites

Prerequisite and Corequisite

Concurrent enrollment in OPT-2971 Optical Field Experience Seminar I.

Outcomes

Course Outcome(s):

Design well-fitting eyewear, taking into consideration spectacle prescription, facial structure, and physiognomic measurements.

Objective(s):

- 1. Analyze and interpret prescriptions and make appropriate lens recommendations.
- 2. Determine patient wants and needs.
- 3. Determine physiognomic measurements necessary to fabricate spectacles.
- 4. Prepare ophthalmic laboratory work orders.
- 5. Determine the prescription of spectacle lenses using the lensometer.
- 6. Verify that lenses are within American National Standards Institute Z80 or Z87 standards.

Course Outcome(s):

Modify eyewear to ensure optical performance.

Objective(s):

- 1. Verify that lenses are within American National Standards Institute Z80 or Z87 standards.
- 2. Properly adjust spectacle frames for optimal comfort and performance.
- 3. Repair eyewear to ensure optimal performance.

Course Outcome(s):

Work within Federal and State guidelines that govern opticianry.

Objective(s):

- 1. Maintain patient records adhering to the Health Information Protection and Portability Act (HIPAA).
- 2. Determine the prescription of spectacle lenses using the lensometer.
- 3. Verify that lenses are within American National Standards Institute Z80 or Z87 standards.
- 4. Work within the safety standards that govern opticianry.

Course Outcome(s):

Conduct him/herself in a professional manner at all times.

Objective(s):

- 1. Maintain patient records adhering to the Health Information Protection and Portability Act (HIPAA).
- Demonstrate professional behavior including punctuality, accepting feedback, willingness to complete tasks, collaborating with others.
- 3. Determine the prescription of spectacle lenses using the lensometer.
- 4. Verify that lenses are within American National Standards Institute Z80 or Z87 standards.
- 5. Properly adjust spectacle frames for optimal comfort and performance.
- 6. Repair eyewear to ensure optimal performance.
- 7. Work within the safety standards that govern opticianry.

Methods of Evaluation:

- 1. Written assignments
- 2. Supervisor evaluation
- 3. Instructor evaluation

Course Content Outline:

- 1. Phone etiquette
- 2. Customer service
- 3. Maintains patient records
 - a. Accuracy
 - b. Adhere to Health Information Portability and Accountability Act (HIPAA) regulations
- 4. Emergency procedures
- 5. Prescription analysis
 - a. Refractive error
 - i. Myopia
 - ii. Hyperopia
 - iii. Astigmatism
 - b. Presbyopia
- 6. Lens recommendation
 - a. Lens material
 - i. CR 39
 - ii. Polycarbonate
 - iii. Mid-index
 - iv. High Index
 - b. Lens design
 - i. Spherical
 - ii. Aspheric
 - iii. Atoric
 - iv. Multifocal
 - 1. Bifocal
 - 2. Trifocal
 - 3. Progressive
 - c. Lens options
 - i. Tints
 - ii. Photochromic

- iii. Polarized
- iv. Non-glare lenses
- 7. Frame adjusting skills
 - a. Tool selection
 - b. Standard alignment
 - c. Realignment of eyewear
- 8. Dispensing skills
 - a. Accurate physiognomic measurements
 - i. Interpupillary (PD) measurement
 - 1. Pupillometer
 - 2. PD rule
 - ii. Major reference point
 - iii. Segment height
 - b. Ordering eyewear
 - i. Single Vision
 - ii. Bifocal
 - iii. Trifocal
 - c. Resolve patient concerns
- 9. Laboratory skills
 - a. Lensometry
 - i. Neutralization of single vision lenses
 - ii. Verification of single vision eyewear
 - b. Lens finishing
 - c. Eyeglass repair
 - i. Temple
 - ii. Nosepad
 - d. Application of American National Standards Institute (ANSI) standards
- 10. Professional development
 - a. Professional behavior
 - i. Punctuality
 - ii. Positive attitude
 - iii. Demonstrates flexibility
 - iv. Utilizes unscheduled time in a constructive way
 - b. Life long learning
 - i. Remain current in field through professional literature, conferences and continuing education
 - ii. Pertinent and appropriate questions

Resources

Brooks, Clifford W. and Irvin M. Borish. System for Ophthalmic Dispensing. 3rd ed. Boston: Butterworth-Heinemann, 2006.

First Vision Media Group. Anti-Reflective Lenses and Treatments. 1st ed. Maywood, NJ: First Media Vision Group, 2009.

First Vision Media Group. Modern Eyewear Dispensing. 1st ed. Maywood, NJ: First Media Vision Group, 2008.

First Vision Media Group. Progressive Addition Lenses. 1st ed. Maywood, NJ: First Media Vision Group, 2007.

First Vision Media Group. Photochromic Lenses. 1st ed. Maywood, NJ: First Media Vision Group, 2008.

First Vision Media Group. What's in an Optical Frame. 1st ed. Maywood, NJ: First Media Group, 2016.

National Academy of Opticianry. Ophthalmic Dispensing Review Book. 2007 ed. Landover, MD: National Academy of Opticianry, 2014.

Stoner, Ellen, Patricia Perkins and Roy Ferguson. Optical Formulas Tutorial. 2nd ed. St. Louis, MO: Elsevier, 2005.

Resources Other

- 1. American Optometric Association. https://www.aoa.org/patients-and-public/caring-for-your-vision/contact-lenses?sso=y (https://www.aoa.org/patients-and-public/caring-for-your-vision/contact-lenses/?sso=y) 2019.
- 2. https://www.myalcon.com/tools-resources/patient-education/index.shtml (https://www.myalcon.com/tools-resources/patient-education/index.shtml/)
- 3. Centers for Disease Control and Prevention. "Healthy Contact Lens Wear and Care."https://www.cdc.gov/contactlenses/index.html 2019.
- 4. Contact Lens Spectrum. https://www.clspectrum.com/ Pentavision, Inc, 2019.
- 5. GP Lens Institute, The Educational Resource for Custom Manufactured Contact Lenses. http://www.gpli.info/online-curriculum/Contact Lens Manufacturers Association, 2020.
- 6. Khan Acadamy. https://www.khanacademy.org/ 2019.
- 7. OptiBoard Forums. http://www.optiboard.com/forums/ 2019
- 8. Quantum Optical. http://www.quantumoptical.com/ 2019.
- 9. Review of Optometry. https://www.reviewofoptometry.com/ Jobson Medical, Inc. 2019
- 10. https://timroot.com/videos/
- 11. https://www.visioncareproducts.com/

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