

M: Course Objectives / Learning Outcomes:

Upon successful completion, the student will be able to:

1. Demonstrate progressive competency with the use of instruments for soft and gas permeable contact lens fitting and analysis
2. Demonstrate the steps of a typical soft or gas permeable lens pre-fit evaluation, diagnostic fitting, and post-fit evaluation
3. Demonstrate proper soft and gas permeable lens care and hygiene
4. Access online pharmaceutical information on ocular medications
5. Perform gas permeable lens parameter modifications
6. Perform an over-refraction process in a typical contact lens fitting
7. Describe and perform an automated sight-tight testing procedure
8. Describe the steps in a refraction assessment
9. Describe and perform important steps in boutique eyeglass and contact lens strategies

N: Course Content:

1. Introduction
 - a. Laboratory objectives
 - b. Laboratory hygiene
 - c. Office Instruments
2. Refraction, Automated Sight Testing and Over-Refraction with Contact Lenses
 - a. Phoropter and Trial lens acuity set
 - a. Mathematical calculations
 - b. Verifying spherical lens correction
 - c. Verifying toric lens correction
 - d. Verifying presbyopic corrections
 - e. Visual acuity complication
 - f. Referring to Optometrist, Ophthalmologist, or MD
3. Soft and Gas Permeable Lens Types, Materials Characteristics, and Fitting Relationship to Ocular Health
4. Soft and Gas Permeable Lens Solution Properties, Chemical Compounds, and Relationship to Ocular Health
5. Contaminants, Complications, and Contraindications Related to Ocular Health
6. Lens Damage and the Relationship to Fitting Complications
7. Soft and Gas Permeable Specialty Materials and Fitting Applications
 - a. Keratoconus lenses
 - b. Astigmatic lenses
 - c. Piggy - Back lenses
 - d. Aphakic lenses
 - e. Pediatric lenses
 - f. Orthokeratology lenses
8. Soft and Gas Permeable Lens Design Analysis and Parameter Modification
9. Boutique Dispensing Strategies

O: Methods of Instruction:

1. Lectures
2. Independent study of courseware
3. Independent completion of online self-assessment quizzes
4. Completion of field assignments
5. Participation in online Discussion Forums

P: Textbooks and Materials to be Purchased by Students:

A list of required and optional textbooks and materials is provided for students at the beginning of each semester.

Q: Means of Assessment:

The course evaluation is consistent with Douglas College evaluation policy. An evaluation schedule is presented at the beginning of the course.

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

Yes.

Course Designer(s)

Education Council / Curriculum Committee Representative

Dean / Director: Dr. Mike Tarko

Acting Registrar: Brenda Walton