



**DOUGLAS COLLEGE**

**EFFECTIVE: SEPTEMBER 2012  
CURRICULUM GUIDELINES**

**A.** Division: Academic Effective Date: September 2012

**B.** Department / Faculty of Science & Technology / Revision  New Course   
 Program Area: Dispensing Optician

If Revision, Section(s) Revised: A, B, F, K, N,

Date of Previous Revision: June 2009

Date of Current Revision: February 2012

**C:** DOPT 2211 **D:** Clinical in Contact Lenses and Optical **E:** 3

Technologies II

Subject & Course No.	Descriptive Title	Semester Credits
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<b>F:</b> Calendar Description:  This course provides learning opportunities in contact lenses and optical technologies at an advanced level. Students will apply knowledge and skills from related theory and laboratory courses to the clinical dispensary. Students will continue their clinical practice in a retail contact lens practice or the on campus clinic. They will complete their clinical skills under the direct supervision of a program approved licensed eyecare professional. A one-week on-campus (laboratory and clinical) instruction component may be required near the end of the semester to complete the course.
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<b>G:</b> Allocation of Contact Hours to Type of Instruction / Learning Settings  Primary Methods of Instructional Delivery and/or Learning Settings:  Lecture / Distance / Clinical Experience  Number of Contact Hours: (per week / semester for each descriptor)  Lecture / Distance / Clinical Experience 120 hours  Number of Weeks per Semester:  15	<b>H:</b> Course Prerequisites:  DOPT 2101 and DOPT 2111
	<b>I:</b> Course Corequisites:  DOPT 2213
	<b>J:</b> Course for which this Course is a Prerequisite:  DOPT 2311
	<b>K:</b> Maximum Class Size:  30

**L:** PLEASE INDICATE:

<input type="checkbox"/>	Non-Credit
<input checked="" type="checkbox"/>	College Credit Non-Transfer
<input type="checkbox"/>	College Credit Transfer:

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS ([www.bctransferguide.ca](http://www.bctransferguide.ca))

**M:** Course Objectives / Learning Outcomes:

Upon successful completion, the student will be able to:

1. Obtain a general history from the patient
2. Determine what diagnostic activities must be conducted to complete an evaluation
3. Use instrumentation and other provisional methods to determine appropriate gas permeable contact lens types and designs
4. Interpret patient refractive error, keratometry readings, and automated corneal topography
5. Discuss contact lens options with the patient
6. Conduct a diagnostic evaluation of a contact lens using reality and simulation software
7. Educate the patient on lens insertion, removal, and care
8. Conduct a contact lens follow up examination
9. Make necessary modifications to improve contact lens fitting characteristics
10. Verify visual acuity by over-refraction
11. Perform the automated sight testing procedure
12. Describe and record tonometry measurements and intraocular pressure

**N:** Course Content:

1. Introduction
  - a. Clinical Objectives
  - b. Clinical and personal hygiene
2. Traditional and Computerized Diagnostic Technologies
 

Slit Lamp Biomicroscope	Keratometry	Lensometer
Profile Analyzer	Hand Loop	Diameter Gauge
Vertex Conversion Chart	Dioptric Conversion Chart	
Snellen Chart	Acuity Trial Lens Set	
Phoropter	Automated Corneal Topography	
Autorefractor	Tonometry	
Ophthalmoscopy	Retinoscopy	
3. Pre-fit Evaluation / Gas Permeable Contact Lenses
  - a. Advanced Ocular Anatomy and Physiology
  - b. Recognition of Advanced Ocular Pathology
  - c. Abnormalities Affecting Gas Permeable Lens Wear
  - d. Lifestyle Considerations for Hard and Gas Permeable Lens Wear
  - e. Interpreting Refractive Errors for Hard and Gas Permeable Lenses
  - f. Advanced Corneal Defects / Deformities / Injuries
4. Lens Parameter Determination
5. Lens Care
  - a. Chemical Disinfection Systems
  - b. Ultrasonic Disinfection Systems
  - c. Surfactant Cleaners
  - d. Enzyme Cleaners
  - e. Rewetting Agents
6. Fitting Procedure / Gas Permeable Lenses
7. Patient Compliance, Instruction and Dispensing Procedure
8. Boutique Dispensing Concepts
9. Patient Follow-up Care and Evaluation
  - a. Instrumentation and Differential Diagnosis
    - i. Keratometry and Biomicroscopy
      - Post-fit assessment
      - Corneal health assessment
      - Differential Diagnosis and Troubleshooting

- ii. Phoropter / Trial Lens Set
  - Visual Acuity Verification
  - Over-refraction

b. Follow-up Protocol - Gas Permeable Lens Designs

Aspheric	Front Toric	Back Toric
Bi-Toric	Prism Ballast	Keratoconus
Presbyopic	Aphakic	Cosmetic

c. Follow-up Protocol – Difficult Patients

**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.

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Course Designer(s) DOPT Faculty

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Education Council / Curriculum Committee Representative

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Dean / Director: Dr. Thor Borgford

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Registrar