



**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, M, N, O, P, Q  
 Date of Previous Revision: October 2007  
 Date of Current Revision: February 2012

**C:** DOPT 1212 **D:** Dispensing Optician Lab Skills II **E:** 4

Subject & Course No.	Descriptive Title	Semester Credits
<b>F:</b> Calendar Description:  This course provides students the laboratory skills to layout, block and edge multifocal and progressive lenses. It provides the skills to identify and tint plastic lenses, adjust frames to suit patient's needs, and perform minor repairs to frames.		
<b>G:</b> Allocation of Contact Hours to Type of Instruction / Learning Settings  Primary Methods of Instructional Delivery and/or Learning Settings:  Laboratory  Number of Contact Hours: (per week / semester for each descriptor)  Laboratory 150 hours  Number of Weeks per Semester:  15	<b>H:</b> Course Prerequisites:  DOPT 1100 + DOPT 1112	
	<b>I:</b> Course Corequisites:  DOPT 1200 + DOPT 1210	
	<b>J:</b> Course for which this Course is a Prerequisite  DOPT 1310	
	<b>K:</b> Maximum Class Size:  15	
<b>L:</b> 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 ( <a href="http://www.bctransferguide.ca">www.bctransferguide.ca</a> )		

**M:** Course Objectives / Learning Outcomes

Upon successful completion, the student will be able to:

1. Understand advantages of lens surfacing
2. Verify the powers of multifocal and progressive lenses
3. Calculate vertical and horizontal centration of multifocal and progressive lenses
4. Block and edge multifocal and progressive lenses
5. Choose and fit frames appropriately for multifocal wear
6. Identify and tint various plastic lens materials
7. Adjust frame designs for patient needs
8. Perform basic frame repairs
9. Apply fashion and sales knowledge to eye glass dispensing

**N:** Course Content

1. Introduction
  - course content and requirements
  - industry standard charts for multifocals
  - review safety procedures in the laboratory
2. General Overview of Surfacing Process
3. Spotting of Lenses
  - power verification of multifocal lenses and progressives
  - power verification of progressive lenses
  - identifying and marking progressive lens lay-out engravings
4. Centration of Multifocal and Progressive Lenses
  - calculating optical centres and reference points with reading adds
  - calculating segment placement
  - calculating centration of progressive lenses
  - calculating centration of vocational lenses
5. Blocking Multifocal and Progressive Lenses
  - protractor scales
  - vertical and horizontal centration
6. Frame Fitting
  - measurements for fitting multifocals and progressives
  - frame selection
  - frame alignment & adjustment
  - lens insertion
7. Lens Tinting
  - lens materials acceptable to heat dyeing
  - overview of equipment and process
  - mixing and changing dye solutions
  - heating fluid temperature and relation to colour activity
  - colour matching plastic material differences
8. Basic Frame Repairs
9. Digital Lenses
  - design concept and fitting requirements

**O:** Methods of Instruction

1. Laboratory Lecture
2. Application / Calculation exercises in Laboratory
3. Independent Study of Courseware
4. Completion of Proficiency Tests
5. Completion of Laboratory Assignments
6. Participation in online discussion forum

**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