

EFFECTIVE: JANUARY 2010 CURRICULUM GUIDELINES

A.	Division:	EDUCATION	Ef	fective Date:		January 2010		
В.	Department / Program Area:	HEALTH SCIENCES/ DISPENSING OPTICIAN	Re	evision	X	New Course		
			Re Da	Revision, Section(s) evised: ate of Previous Revision ate of Current Revision		C, D, F, G, H, I, J, M, N, O January 2008 June 2009		
C:	DOPT 2213	D: LABORATORY IN CONTACT LENSES E: 4 AND OPTICAL TECHNOLOGIES II						
-	Subject & Cou	Subject & Course No. Descriptive Title				Semester Credits		
F:	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 course instructor, Optician / Contact Lens fitter, Optometrist, or Ophthalmologist. A one-week on-campus (laboratory and clinical) instruction component will take place near the end of the semester to complete the course.							
G:		ontact Hours to Type of Instruction	H:	Course Prerequisites:	:			
	/ Learning Settings			DOPT 2101 and DOPT 2113				
	Primary Methods of Instructional Delivery and/or Learning Settings:							
	Looturo / Disto	neo /	I:	Course Corequisites:				
	Laboratory	Lecture / Distance / Laboratory		DOPT 2211				
		tact Hours: (per week / semester						
	for each descriptor) Lecture / Distance / Laboratory: 120 Number of Weeks per Semester:		J:	Course for which this	is Course is a Prerequisite:			
				DOPT 2311				
			K:	Maximum Class Size:				
	15			25				
L:	DI FASE INDI	CATE:						
L.		PLEASE INDICATE: Non-Credit College Credit Non-Transfer College Credit Transfer:						
	College C							
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)							

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

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0:		PT 2213: Laboratory in Contact Lenses and Optical Technologies II Page 3 of 3 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 o	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 Le	Prior Learning Assessment and Recognition: specify whether course is open for PLAR					
	Yes.						

Dean / Director: Dr. Mike Tarko

Acting Registrar: Brenda Walton

Education Council / Curriculum Committee Representative

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Course Designer(s)