

EFFECTIVE: JANUARY, 2008 CURRICULUM GUIDELINES

А.	Division:	HEALTH SCIENCES	Ef	fective Date:		January, 2008		
B.	Department / Program Area:	DISPENSING OPTICIAN PROGRAM	Re	evision	X	New Course		
	C			Revision, Section(s) wised:		P		
C:	DOPT 2412	D: CONTACT	Da	te of Previous Revision te of Current Revision LABORATORY 1		September 2004 September 2007 E: 4		
	Subject & Cou	rse No.	Descri	ptive Title		Semester Credit	s	
F:	Calendar Description: This course provides students the laboratory skills for quality control of contact lens materials, solutions, and their ocular applications. The ability to calibrate, maintain and implement the use of the equipment and tools associated with the contact lens laboratory. It provides the student with the skills to assimilate information collected on contact lens materials and solutions for ocular application and effect.							
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings		H:	Course Prerequisites				
		Primary Methods of Instructional Delivery and/or Learning Settings: Laboratory		DOPT 1310/or/Meeting Second Year Direct Entrance Requirements				
	Laboratory			I: Course Corequisites:				
				DOPT 2400 and DO	DPT 2 4	10		
	Number of Contact Hours: (per week / semester for each descriptor)		J:	Course for which thi	s Cour	se is a Prerequisite		
	Laboratory	-		DOPT 2510, DOPT 2512				
	Number of Weeks per Semester:		K:	Maximum Class Size	e:			
	15			14				
L:	PLEASE INDI	CATE:						
	Non-Credit							
		X College Credit Non-Transfer						
	College Credit Transfer:							
	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 competency with the use of the following instruments for contact lens fitting and analysis:								
			Slit Lamp Biomicroscope Profile Analyzer Vertex Conversion Chart Acuity Charts	Keratometry Hand Loop Dioptric Conversion Chart Acuity Trial Lens Set	Lensometry Diameter Gauge Radiuscope				
	2. Accumulate skills and knowledge through use of instrumentation on contact lens mate and the relationship to fitting procedures.								
		3.	 Evaluate material and fitting characteristics based on knowledge of chemical properties and characteristics of contact lens materials. 						
		4.							
		5.							
		6.	Recall knowledge of contact lens materials by manufacturer, label name, material compound names, water content, power range and recommended patient fitting procedure and wearing schedule.						
	7. Recall knowledge of contact lens cold disinfection systems, lens storage solutions, surfactant cleaning solutions, enzyme cleaners, rewetting agents, and medically prescribed pharmaceutical agents.								
		8.	Apply knowledge of contact lens solutions and contact lens material characteristics to physical cleaning and disinfection of contact lenses.						
	 9. Analyze effective and non-effective solutions by contact lens surface examination 10. Recall knowledge of contact lens solutions by manufacturer, brand name, chemical ingredients, recommended usage. 								
	N:	Course Content:							
1. Introduction			tion -Laboratory objectives -Orientation to laboratory instruments and equipment -Laboratory hygiene -equipment sterilization						
	2.	Instrur	nentation Slit Lamp Biomicroscope Profile Analyzer Vertex Conversion Chart Snellen Chart		ensometer viameter Gauge				

N: Course Content:

3. Lens Types, Material Characteristics, and Fitting Relationship to Ocular Health

- 3.1 Material compounds
- 3.2 Material configurations and design
- 3.3 Lens parameter determination
- 3.4 Chemical properties of contact lenses
- 3.5 Manufacturer's material limitations

4. Contact Lens Solution Properties, Chemical Compounds, and Relationship to Ocular Health

- 4.1 Chemical Disinfection Systems
- 4.2 Thermal Disinfection Systems
- 4.3 Hydrogen Peroxide Disinfection
- 4.4 Surfactant Cleaners
- 4.5 Enzyme Cleaners
- 4.6 Rewetting Agents
- 4.7 Medically Prescribed Ocular Pharmaceutical Agents

5. Solution Procedures / Specific Function

- 5.1 Chemical Disinfection Systems
- 5.2 Thermal Disinfection Systems
- 5.3 Hydrogen Peroxide Disinfection
- 5.4 Surfactant Cleaners
- 5.5 Enzyme Cleaners
- 5.6 Rewetting Agents

6. Contact Lens Contaminants / Bacteria / Fungus, and Fitting Relationship to Ocular Health

- 6.1 Chemical contamination
- 6.2 Fungus / Bacterial growth
- 6.3 Protein build up
- 6.4 Calcium deposits
- 6.5 Airborne contamination
- 6.6 Dehydration

7. Contact Lens Deformation / Defects and The Relationship to Fitting Complications

- 7.1 Minuscule cracks
- 7.2 Stress cracks
- 7.3 Lathe cut deposits
- 7.4 De-Blocking deposits
- 7.5 Edge deformation
- 7.6 Hydration times
- 7.7 Unsterile vials and solution
- 7.8 Stale dating

0:	Mathad	a of Instruction	1 age 4 01 4				
0:	method	Methods of Instruction					
	1.	Laboratory Lectures					
	 Application/Instrumentation exercises in Laboratory 						
	3. Independent study of courseware						
	4. 5.	Completion of Proficiency Tests Completion of Laboratory Assignments					
	5.						
P:	Textboo	oks and Materials to be Purchased by Stude	nts				
		Efron, Contact Lens Practice,(Latest Ed	ition) Butterworth-Heinemann				
		Douglas College Courseware					
Q:	Means of	of Assessment					
	Evaluation of this course will be based on the course objectives in accordance with Douglas College policie						
		ion methods will include written, oral and					
		1. Completion of Post Tests	20%				
		2. Midterm Exams (X2)	40%				
		3. Final Exam	30%				
		4. Completion of field assignments	10%				
R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR		fy whether course is open for PLAR					
	Yes						

Course Designer(s)

Education Council / Curriculum Committee Representative

Dean / Director

Registrar

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