

EFFECTIVE: SEPTEMBER 2002

CURRICULUM GUIDELINES

A:	Division:	HEALTH SCIENCES	Date:	May 23, 2002				
B :	Department/ Program Area:	DISPENSING OPTICIAN PROGRAM	New Course	Revision X				
			If Revision, Section(s)	Revised: M				
			Date Last Revised:	January 8, 2001				
C:	DOPT 5	12 D: CONT	CACT LENS LABORATORY	II E: 4				
	Subject & Cou	rse No.	Descriptive Title	Semester Credits				
F:	material and sol specialized cont	ution complications as they relate to act lens materials, including the des velop the ability to verify visual act	o ocular application. It provide signing and modification of suc					
G:	Allocation of Co Instruction/Lear	ontact Hours to Types of ning Settings	H: Course Prerequisites: DOPT 400 AND DO	PPT 410 AND DOPT 412				
	Primary Methods of Instructional Delivery and/or							
	Learning Setting	zs:	I. Course Corequisites:					
	Laboratory		DOPT 500, DOPT 5	10				
	Number of Cont	act Hours: (/ semester for each						
	descriptor) Laboratory: 120		J. Course for which this DOPT 610	Course is a Prerequisite:				
			K. Maximum Class Size					
	Number of Weeks per Semester: 15		14					
L:	PLEASE INDICATE:							
	Non-Credit							
	X College Cre	edit Non-Transfer						
	College Credit Transfer: Requested Granted							
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)							

М:	Course	Course Objectives/Learning Outcomes				
	Upon successful completion, the student will be able to:					
	1.	Demonstrate progressive competency with the use of the following instruments for hard and gas permeable contact lens fitting and analysis:				
		Slit Lamp Biomicroscope Profile Analyzer Vertex Conversion Chart Acuity Charts Modification Bucket	Keratometry Hand Loop Dioptric Conversion Chart Acuity Trial Lens Set Modification Tools	Lensometry Diameter Gauge Radiuscope		
	2.	Demonstrate skills and knowledge materials, and the relationship to t		n hard and gas permeable contact lens		
	3.	Demonstrate knowledge of hard a lens applications.	nd gas permeable lens materials to	the design and modification of specialty		
	4.	Evaluate material and fitting chara properties and characteristics of c		ble lenses based on knowledge of chemical		
	5.	Identify imperfections of hard and resolution.	l gas permeable lens materials, rec	ognize the probable cause, and identify the		
	6.			ufacturer, label name, material compound tting procedure and wearing schedule.		
	7.			ms, lens storage solutions, surfactant y prescribed pharmaceutical agents.		
	8.	Recall knowledge of hard and gas recommended usage.	permeable lens solutions by manu	ifacturer, brand name, chemical ingredients,		
	9.	Analyze effective and non-effective	ve solutions by contact lens surface	e examination.		
	10.	Perform hard and gas permeable l	ens parameter modifications by in	strumentation.		
	11.	Recall knowledge of over-refracti	on techniques for verification of p	atient's visual acuity.		

1.	. .	ourse Content			
	duction				
		Laboratory objectives			
		oratory hygiene			
	- Harc	- Hard and gas permeable equipment			
2.	Verif	ying Visual Acuity / Over-Refraction with Contact Lenses			
	2.1	Trial lens acuity set			
	2.2	Mathematical calculations			
	2.3	Verifying spherical lens corrections			
	2.4	Verifying toric lens corrections			
	2.5	Verifying presbyopic corrections			
	2.6	Visual acuity complications			
	2.7	Referring to Optometrist or Ophthalmologist			
3.	Hard	and Gas Permeable Lens Types, Materials 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			
	3.6	Specialty lens materials			
4.	Hard and Gas Permeable Lens Solution Properties, Chemical Compounds, and Relationship to Ocula				
	Healt				
	4.1	Chemical Disinfection Systems			
	4.2	Ultrasonic Disinfection Systems			
	4.3	Surfactant Cleaners			
	4.4	Enzyme Cleaners			
	4.5	Rewetting Agents			
	4.6	Medically Prescribed Ocular Pharmaceutical Agents			
5.	Solut	ion Procedures / Specific Function			
	5.1	Chemical Disinfection Systems			
	5.2	Ultrasonic Disinfection Systems			
	5.3	Surfactant Cleaners			
	5.4	Enzyme Cleaners			
	5.5	Rewetting Agents			
6.	Conta	aminants / Bacteria / Fungus, and Complications 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			
7.	Lens Deformation / Defaults 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	Curvature changes			
	7.7	Unsterile cases and solution			

8. Hard and Gas Permeable Specialty Materials and Fitting Applications

- 8.1 Keratoconus lenses
- 8.2 Astigmatic lenses
- 8.3 Piggy Back lenses
- 8.4 Aphakic lenses
- 8.5 Pediatric lenses
- 8.6 Orthokeratology lenses

9. Hard and Gas Permeable Lens Design Analysis and Parameter Modification

- 9.1 Monocurve tooling
- 9.2 Bicurve tooling
- 9.3 Tricurve tooling
- 9.4 Blending
- 9.5 Edge contouring
- 9.6 Prism Ballast lenses
- 9.7 Truncating
- 9.8 CN bevelling
- 9.9 Toric lens tooling
- 9.10 Polishing

O: Methods of Instruction

- 1. Laboratory Lectures
- 2. Application / Instrumentation exercises in Laboratory
- 3. Independent study of courseware
- 4. Completion of Proficiency Tests
- 5. Completion of Laboratory Assignments
- P: Textbooks and Materials to be Purchased by Students

Mandell, Contact Lens Practice. (Latest Edition) Charles C. Thomas Publishing

Douglas College Courseware

Q: Means of Assessment

Evaluation of the course will be based on the course objectives in accordance with Douglas College policies. Evaluation methods will include written, oral and clinical assignments.

1.Completion of laboratory exercises30%2.Midterm exams30%3.Final Exam30%4.Completion of proficiency test10%

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

Yes

Course Designer(s)

Education Council/Curriculum Committee Representative

Dean/Director

Registrar

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