

#### **EFFECTIVE: SEPTEMBER 2002**

### **CURRICULUM GUIDELINES**

A:	Division:	HEALTH SCIENCES	Date:	May 23, 2002				
В:	Department/ Program Area:	DISPENSING OPTICIAN PROGRAM	New Course	Revision X				
			If Revision, Section(s) Rev	vised: N, Q				
			Date Last Revised:	January 8, 2001				
C:	DOPT 4	10 D: C	LINICAL DISPENSING I	E: 3				
	Subject & Cour	rse No.	Descriptive Title	Semester Credits				
F:	Calendar Description: This course provides learning opportunities for students in the contact lens program to apply knowledge and skills from related contact lens theory and laboratory courses to the contact lens dispensary. Students will be placed in the Douglas College Vision Centre and will complete their contact lens dispensing skills under direct supervision of a program instructor.							
G:	Allocation of Co Instruction/Lear	ontact Hours to Types of ning Settings	H: Course Prerequisites:					
	Primary Methods of Instructional Delivery and Learning Settings:		DOPT 310 or upon direct entrance requirements					
	Clinical Experi	ence	I. Course Corequisites:					
			DOPT 400, 412					
	Number of Cont descriptor)	act Hours: (per semester for each	J. Course for which this Course is a Prerequisite:					
	Clinical Experi	ience 120 hrs.	DOPT 510, 610					
			K. Maximum Class Size:					
	Number of Weel	ks per Semester: 15	14					
L:	PLEASE INDICATE:							
	Non-Credit							
	X College Credit Non-Transfer							
	College Credit Transfer: Requested Granted   SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)							

<b>M</b> :	Course Objectiv	es/Learning Outcomes
	1.	Obtain a general history from the patient through discussion to determine visual, physiological, pathological problems, and activity needs of the patient.
	2.	Review and compare past and current ocular status and assess suitability for lens wear, and determine what diagnostic activities must be conducted to complete evaluation.
3. Use instrumentation and other provisional m soft contact lens type and design.		Use instrumentation and other provisional methods to determine appropriate soft contact lens type and design.
	4.	Interpret patient refractive error and keratometry readings by analyzing a written prescription and accumulated information to meet patient's needs.
	5.	Discuss soft contact lens options with the patient as related to the ocular status and prescription.
	6.	Apply knowledge of soft lens materials, characteristics, and physiology to maintain ocular integrity and visual requirement of the patient.
	7.	Conduct a diagnostic soft lens evaluation by inserting a trial lens and evaluating objective findings to determine appropriate design and fitting relationship.
	8.	Determine aggregate lens parameters from the diagnostic fitting and patient subjective responses and order soft lenses by specific lens parameters to achieve optimal fit and visual acuity.
	9.	Educate the patient by providing verbal and written instructions and hands-on practice of soft lens insertion / removal procedures.
	10.	Educate the patient by providing verbal and written instructions and hands-on practice of soft lens care and hygiene.
	11.	Determine the patient's subjective responses to soft lens wear by follow-up examination to evaluate appropriateness of lens comfort, material and solution compatibility and visual acuity.
	12.	Evaluate soft lens fit by observation using instrumentation, diagnostic tools, and empirical methods and determine objective findings.
	13.	Make necessary modifications of lens parameters, lens materials and / or lens solutions to improve fitting characteristics, ocular health, patient compliance, and visual acuity.
	14. evaluat	Reinforce to the patient the necessity of follow-up examination for compliance, ion, soft lens care, hygiene and handling protocols.

:	Course Content	-					
	1.	Introd	luction				
			-Clinical Objectives	1 1'			
			-Professionalism in the clinica				
		-Clinical and personal hygiene					
	2.	Instrumentation					
			Slit Lamp Biomicroscope	Keratometry	lensometer		
			Profile Analyzer	Hand Loop	Diameter Gauge		
			Vertex Conversion Chart Snellen Chart	Dioptric Conversion Acuity trial Lens Set	Chart Radiuscope		
			Sherien Chart Acuty trial Lelis Set				
	3.	Prefit Evaluation / Soft Contact Lenses					
		3.1 Ocular Anatomy and Physiology					
			Cornea structure	Conjunctiva	Lid structure		
			Tear film	Lashes	Crystalline lens		
			Iris	Pupil	Sclera		
		3.2	Ocular Pathology				
			Conjunctivitis	GPC	Blepharitis		
			Exophthalmos	Keratoconus	Keratitis sicca		
			Neovascularization	Pterygium	Pinguecula		
			Aniridia Co	rneal edema Cor	meal Ulcers		
Aniridia		Bullous keratopathy	corneal dystrophies				
3.3 Abnormalities Effecting Contact Lens Wear							
			Alcohol	Drugs	Diabetes		
			Arthritis	Herpes	Thyroid		
			Ocular Medication	Systemic Disease	Allergies		
		3.4	Lifestyle Considerations For	· Contact Lens Wear			
			Athletics	Work Environment			
			Climate	Cosmetic			
			Social	Age			
		3.5	<b>Refractive Errors</b>	Social Age			
			Myopia	Hyperopia	Presbyopia		
			Aphakia	Amblyopia	Strabismus		
			Astigmatism	Aniseikonia	Exotropia		
			Esotropia	Pseudophakia	Anisometropia		
	3.6 Corneal Defects / Deformities / Injuries						
			Keratoplasty	Albinism	Nystagmus		
			Coloboma	Retinopathy of prema			
		Radial Keratometry Laser Surgery					

4.	<u>t cont'd</u> Deter	mine Lens Type / Lens Design / So	ft Lenses			
	4.1 Soft Lens Configuration and Design					
		Aspheric	Front Toric	Back Toric		
		Bi-Toric	Prism Ballast	Keratoconus		
		Presbyopic Design	Aphakic Design	CosmeticDesign		
		Lenticular Myoflange	Lenticular Hyperflange			
	4.2	Determination of Soft Lens Par	ameters			
		Base Curve	Diameter	Edge Design		
		Thickness	Vertex Power			
		Apical Posterior Curve	Posterior Peripheral Cur	ve		
	4.3	4.3 Chemical Properties / Relation to Pre-Fit Evaluation				
		Oxygen Permeability	Transmissibility	Durability		
		Thermal Conductivity	Water Content	Stability		
	4.4	Lens Material Characteristics /	rial Characteristics / Relation to Pre-Fit Evaluation			
		Prescription Limitation		Design Limitations		
		Specific Gravity		Color Tinting		
	Manufacturing Limitation					
5.	Solution Compatibility / Soft Lens Material					
	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	5.6 Rewetting Agents				
6. Fitting Procedure / Soft Lens						
	6.1					
		Daily Wear	Extended Wear			
		Therapeutic	Investigational			
	6.2	Procedure for Specific Patient	Application			
		Myopia	Hyperopia	Astigmatism		
		Presbyopia	Aphakia	Esotropia Pediatric		
		Exotropia	Therapeutic			

N:	Course Content	Cont'd				
	7.		nt Instruction / Delivery Procedure / Soft Lens			
		7.1	Patient Instruction / Verbal and Written			
			-Patient hygiene			
			-Insertion and removal techniques			
			-Alternate insertion and removal techniques			
			-Emergency responses to patient insertion and removal			
			techniques			
		7.2	Patient Post Insertion / Removal Procedure			
			-Movement / Centration / Stability			
			-Burning / Itching / Stinging			
			-Presence of a foreign body			
			-Inverted lens			
			-Visual acuity			
		7.3	Hygiene and Soft Lens Care			
			-Chemical Disinfection Systems			
			-Thermal Disinfection Systems			
			-Hydrogen Peroxide Disinfection			
			-Surfactant Cleaners			
			-Enzyme Cleaners			
			-Rewetting Agents			
		7.4	Soft Lens Sensitivities / Contamination			
			-Chemical contamination			
			-By-Product contamination			
			-Airborne contamination			
			-Allergy reactions			
			-Systemic reaction			
			-Medication reaction			
	8.	Patient Follow-Up Care / Evaluation / Soft Lens				
		8.1	Instrumentation Diagnosis			
			a) Keratometry			
			-Lens fitting observation			
			-Objective diagnosis			
			-Corneal compatibility			
			b) Slit Lamp Biomicroscope			
			-Ocular anatomy			
			-Ocular physiology			
			-Lens fitting evaluation			
			-Corneal compatibility			
			-Objective diagnosis			
			-Fluorescein pattern evaluation			

N:	Course Content Cont'd	c) I	Phoropter / Tria	l Lens Set				
	<ul><li>8.2 Aspects of Evaluation / Corrective Measures / Soft Lens</li></ul>							
		Neovascu		Centration Flat Lens al Edema Corneal Stain Allergic Ocul Systemic Ocu	ar Response			
	8.3	Follow-Up Protoc	cols / Soft Lens	Type/R.G.P.				
		AsphericFrontBi-ToricPrismPresbyopicAphak		Ballast	Back Toric Keratoconus Cosmetic			
	8.4	8.4 Follow-Up Protocols / Solution Compatibility						
	-Allergic ocular response -Systemic ocular response -Daily wear materials -Extended wear materials -Therapeutic / Pediatric materials							
	8.5 Follow-Up Protocols / Specific Patient Types							
		-Routine -Apprehe -Psycholo -Port Sur	gically unstabl	e				
0:	Methods of Instruction							
	3.Independence4.Complete	e al exercises in the dis endent study of proce letion of Independent etion of Assignment.	dures evaluation					
Р:	Textbooks and Materials to be Purchased by Students Mandell, <u>Contact Lens Practice</u> , (Latest Edition) Charles C. Thomas Publishing							
	Stein - Slatt - Stein, <u>Fitting Guide for Rigid</u> , (Latest Edition) C.V. Mosby Co. <u>and Soft Contact Lenses</u>							
	Stein - Slatt - Stein, <u>A Primer in Ophthalmology</u> , (Latest Edition) C.V. Mosby Co.							
	Douglas College Courseware							

Course Designer(s)

Education Council/Curriculum Committee Representative

Dean/Director

Registrar

© Douglas College. All Rights Reserved.