

CURRICULUM GUIDELINES

A:	Division:	HEALTH SCIENCES	Date:	January 8, 2001		
В:	Department/ Program Area:	DISPENSING OPTICIAN PROGRAM	New Course	Revision X		
			If Revision, Section(s) Revised:	F, G, Q		
			Date Last Revised:	May 29, 1996		
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C:	DOPT 4		CLINICAL DISPENSING I	E: 3		
	Subject & Cou		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 Contact Hours to Types of Instruction/Learning Settings		H: Course Prerequisites: DOPT 310 or upon direct ent	trance requirements		
	Primary Method Learning Setting	ls of Instructional Delivery and/or gs:				
	Clinical Experie	-	L Course Corequisites:			
	Chincar Experts		DOPT 400, 412			
	Number of Contact Hours: (per semester for each descriptor)		J. Course for which this Course is a Prerequisite:			
	Clinical Experi	ience 120 hrs.	DOPT 510, 610			
			K. Maximum Class Size:			
	Number of Week	ks per Semester: 15	14			
L:	PLEASE INDICA					
	X College Credit Non-Transfer College Credit Transfer: Requested Granted					
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)					

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M:	Course Objective	Course Objectives/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 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.	Reinforce to the patient the necessity of follow-up examination for compliance, evaluation, soft lens care, hygiene and handling protocols.			

DOPT 410 Clinical Dispensing I

N:	Course Content						
	1.	Introduction					
			-Clinical Objectives				
			-Professionalism in the clinical disp	bensary			
		-Clinical and personal hygiene					
	2.	Instrun	nentation				
			Slit Lamp Biomicroscope	Keratometry	lensometer		
			Profile Analyzer	Hand Loop	Diameter Gauge		
			Vertex Conversion Chart	Dioptric Conversion Chart			
			Snellen Chart	Acuity trial Lens Set			
	3.	Prefit E	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	Corneal edema	Corneal Ulcers		
			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 Cor	ntact Lens Wear			
			Athletics	Work Environment			
			Climate	Cosmetic			
			Social	Age			
		3.5	Refractive Errors				
			Myopia	Hyperopia	Presbyopia		
			Aphakia	Amblyopia	Strabismus		
			Astigmatism	Aniseikonia	Exotropia		
			Esotropia	Pseudophakia	Anisometropia		
		3.6	Corneal Defects / Deformities / In	njuries			
			Keratoplasty	Albinism	Nystagmus		
			Coloboma	Retinopathy of prematurely			

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N:	Course Content cont'd						
	4.	Determine Lens Type / Lens Design / Soft 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 Param	eters			
			Base Curve	Diameter	Edge Design		
			Thickness	Vertex Power			
			Apical Posterior Curve	Posterior Peripheral Curve			
4.3 Chemical Properties / Relation to Pre-Fit Evaluation		Pre-Fit Evaluation					
			Oxygen Permeability	Transmissibility	Durability		
			Thermal Conductivity	Water Content	Stability		
		4.4	4.4 Lens Material Characteristics / Relation to Pre-Fit Evaluation				
			Prescription Limitation		Design Limitations		
			Specific Gravity		Color Tinting		
			Manufacturing Limitation				
	5.	Solutio	on 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	Rewetting Agents				
6. Fitting Procedure / Soft Lens							
		6.1					
			Daily Wear	Extended Wear			
			Therapeutic	Investigational			
6.2 Procedure for Specific Patient Application		lication					
			Myopia	Hyperopia	Astigmatism		
			Presbyopia	Aphakia	Esotropia		
			Exotropia	Therapeutic	Pediatric		

N:	Course Content (Cont'd	<u>ont'd</u>				
	7.	Patien	tt 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.	Patien	nt 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				

N:	Course Content Cont'd	c) Pho	ropter / Trial Lens S	at	
		c) 11101	Topter / That Lens 3		
	8.2	8.2 Aspects of Evaluation / Corrective Measures / Soft Lens			
		Movement	Centr	ation	Stability
		Steep Lens	Flat I	Lens	Inverted Lens
		Corneal Mole	ling Corneal Edema	Infection	n
		Neovasculari	zation Corn	eal Staining	Foreign Body
		Conjunctival	-	gic Ocular Response mic Ocular Response	2
	8.3	Follow-Up Protocols /	-	Ĩ	
	0.3	Follow-Op Flotocols /	Soft Lens Type		
		Aspheric	Front Toric	Back To	ric
			m Ballast	Keratoconus	
		Presbyopic	Aphakic	Cosmeti	c
	8.4	Follow-Up Protocols /	Solution Compatib	ility	
		-Allergic ocu	lar response		
			ular response		
		-Daily wear m			
		-Extended wear materials			
		-Therapeutic	/ Pediatric materials		
	8.5	Follow-Up Protocols /	Specific Patient Ty	pes	
		-Routine			
		-Apprehensiv			
		-Psychologic	•		
		-Port Surgica	1		
0:	Methods of Instruction				
	1. Lectur	e			
	2. Clinic	al exercises in the dispensary			
	3. Indep	endent study of procedures			
	4. Comp	bletion of Independent evaluation			
	5. Comp	letion of Assignment.			

DOPT 410 Clinical Dispensing I

P:	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> , (Late	est Edition) C.V. Mosby Co.		
	<u>Dou</u> g	<u>glas College Courseware</u>			
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 tests and assignments.				
	1.	Completion of post tests	20%		
	2.	Midterm exams (X2)	40%		
	3.	Final exam	30%		
	4.	Completion of field assignments	10%		
R:	Prior Learnin Yes	g Assessment and Recognition: specify wheth	ner course is open for PLAR		
Cour	se Designer(s)		Education Council/Curriculum Committee Representative		
Dean/Director			Registrar		

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