

EFFECTIVE: JANUARY 2003

CURRICULUM GUIDELINES

А.	Division:	HEALTH SCIENCES	Ef	fective Date:		January 2003	
B.	Department / Program Area:	DISPENSING OPTICIAN PROGRAM	Re	evision	Х	New Course	
	5		Re Da	Revision, Section(s) evised: ate of Previous Revision ate of Current Revision		M,N, Q May 23, 2002 April 10, 2003	
C:	DOPT 212	D: DISPENSIN		TICIAN LAB SKILL		E: 4	
	Subject & Cour	rse No. Descript	tive Ti	tle	Sen	nester Credits	
F:	Calendar Description: This course provides students the laboratory skills to surface lenses, layout, block and edge multifocal and progressive lenses. It provides the skills to identify and tint plastic lenses and customize a frame to suit the patient's needs, and to repair broken frames and parts of plastic and metal frame materials.						
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings:		H:	H: Course Prerequisites:			
			DOPT 100 + DOPT 112				
	Laboratory	Laboratory		I: Course Corequisites:			
				DOPT 200 + DOPT	210		
		Number of Contact Hours: (per week / semester for each descriptor)		J: Course for which this Course is a Prerequisite			
	Laboratory 150 hrs			DOPT 310			
			K:	Maximum Class Size	e:		
	Number of Weeks per Semester: 15		14				
L:	: PLEASE INDICATE:						
	Non-Credit						
		X College Credit Non-Transfer					
	College Credit Transfer:						
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)						

M:	Course Objective	burse Objectives / Learning Outcomes						
	Upon st 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	uccessful completion, the student will be able to: Apply knowledge of lens surfacing to dispensing and edging skills Describe the lens surfacing procedure Verify the powers of multifocal and progressive lenses Calculate vertical and horizontal centration of multifocal and progressive lenses Block and edge multifocal and progressive lenses Choose and fit frames appropriately for multifocal wear Identify and tint various plastic lens materials Customize frame designs for patient needs Repair various plastic frame materials Perform repairs to broken frame hinges, screws and pins Repair metal frames by soldering						
N:	Course Content							
	1.	Introduction -course content and requirements -industry standard charts for multifocals -review safety procedures in the laboratory						
	2.	Surfacing -Analysis of Opticians Order -Computing Lens Surface Parameters -Lay-Out -Blocking -Generating -Fining and Polishing -De-Blocking -Truing Tools -Machine Tolerances						
	3.	Spotting of Lenses -power verification of multifocal lenses -power verification of progressive lenses -identifying and marking progressive lens lay-out engravings						
	4.	Centration of Multifocal and Progressive Lenses -calculating optical centres and reference points with reading adds -calculating segment placement -calculating centration of progressive lenses -calculating centration of vocational lenses						
	5.	Blocking Multifocal and Progressive Lenses -protractor scales -vertical and horizontal centration						
	6.	Frame Fitting -measurements for fitting multifocals -frame selection -frame alignment & adjustment -lens insertion						

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	7.	Lens Tinting				
		-lens materials acceptable to heat dyeing				
		-overview of equipment and process				
		-mixing and changing dye solutions -heating fluid temperature and relation to color activity				
		-color matching plastic material differences				
	0	Soldovino				
	8.	Soldering				
		-electric verses gas soldering				
		-flux, solder and melting temperatures				
		-developing the right materials				
		-cooling, cleaning and polishing				
		-cooling, cleaning and polising				
	9. Frame Customization and Repairing					
		9.1 Customizing				
		8				
		-frame materials acceptable to alteration				
		-changing lens shapes				
		-altering bridge designs				
		-altering temple length				
		-changing temple design				
		9.2 Repairing				
		-frame materials acceptable to repair				
		-screws and pins				
		-hinges and plaques				
		-rimless mountings				
		-bonding plastics compounds				
		-bonding plastics compounds				
0:	Methods of Ins	struction				
	1.	Laboratory Lecture				
	2.	Application / Calculation exercises in Laboratory				
	3.					
	3. 4.	Independent Study of Courseware				
	Completion of Proficiency Tests					
5. Completion of Laboratory Assignments						
P:	Textbooks and	Materials to be Purchased by Students				
		, ,				
	Brooks From	ntials for Ophthalmic Lens Work, (Latest Edition) New York, Fairchild				
	DIOUKS - 1288CH	Itals for Ophthalling Lens WOLK, (Latest Edition) New Tork, Parennu				
	<u>Dougl</u>	<u>las College Courseware</u>				
L						
Q :	Means of Asses	ssment				
	1.	Completion of Proficiency Tests 20%				
	2.	Completion of Laboratory Assignments 20%				
	3.	Midterm Exams 20%				
	4.	Practical Exam 20%				
	5.	Final Exam 20%				
	Э.					
	Midterm and Final Exams will be Written and Practical					

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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