

EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

А.	Division:	HEALTH SCIENCES	Ef	fective Date:		September 2004
B.	Department / Program Area:	DISPENSING OPTICIAN PROGRAM	Re	evision	X	New Course
	U			Revision, Section(s) evised:	L	C, H, I, J
				ate of Previous Revisio		April 10, 2003
C:	DOPT 1212	D: DISPENSIN		ate of Current Revision TICIAN LAB SKILL		September 2004 E: 4
	Subject & Cour	1	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:		ontact Hours to Type of Instruction	H:	Course Prerequisites	:	
	/ Learning Settir	ngs		DOPT 1100 + DOPT 1112		
		Primary Methods of Instructional Delivery and/or Learning Settings: Laboratory				
	Laboratory			Course Corequisites:	:	
			DOPT 1200 + DOPT 1210			
		Number of Contact Hours: (per week / semester for each descriptor)		Course for which this Course is a Prerequisite		
	Laboratory 150 hrs Number of Weeks per Semester: 15			DOPT 1310		
			K:	Maximum Class Size	e:	
				14		
L:	PLEASE INDI	CATE:				
	Non-Credit					
	X College Cr	X College Credit Non-Transfer				
	College Ci	College Credit Transfer:				
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)					

M:	I: Course Objectives / Learning Outcomes					
	Upon successful completion, the student will be able to:					
	1.	Upon successful completion, the student will be able to: 1. Apply knowledge of lens surfacing to dispensing and edging skills				
	 Apply knowledge of fens surfacing to dispensing and edging skins Describe the lens surfacing procedure 					
3. Verify the powers of multifocal and progressive lenses						
	<i>4</i> .	Calculate vertical and horizontal centration of multifocal and progressive lenses				
	5.	Block and edge multifocal and progressive lenses				
	 6. Choose and fit frames appropriately for multifocal wear 7. Identify and tint various plastic lens materials 					
	 Restoring and the various plastic fens materials Customize frame designs for patient needs 					
9. Repair various plastic frame materials						
10. Perform repairs to broken frame hinges, screws and pins						
	11.	Repair metal frames by soldering				
N:	Course Content					
	1.	Introduction				
	1.	-course content and requirements				
		-industry standard charts for multifocals				
		-review safety procedures in the laboratory				
		-review safety procedures in the faboratory				
	2.	Surfacing				
	2.	-Analysis of Opticians Order				
		-Computing Lens Surface Parameters				
		-Lay-Out				
		-Blocking				
		-Generating				
		-Fining and Polishing				
		-De-Blocking				
		-Truing Tools				
		-Machine Tolerances				
		-Machine Tolerances				
	3.	Spotting of Lenses				
		-power verification of multifocal lenses				
		-power verification of progressive lenses				
		-identifying and marking progressive lens lay-out engravings				
		raonany ing and marking progressive tons my out ongravings				
	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				
	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 colour activity				
		-colour matching plastic material differences				

	8.	Soldering					
		-electric verses gas soldering					
		-flux, solder and melting temperat	ures				
-developing the right materials							
	-cooling, cleaning and polishing						
	9.	Frame Customization and Repairing					
		-frame materials acceptab	ble to alteration				
		-changing lens shapes					
		-altering bridge designs					
		-altering temple length					
		-changing temple design					
		9.2 Repairing					
		-frame materials acceptab	ble to repair				
		-screws and pins	to the first second secon				
		-hinges and plaques					
		-rimless mountings					
		-bonding plastics compo	unde				
		-bonding plastics compor	liids				
		· ·					
0:	Methods of Inst	ruction					
	1.	Laboratory Lecture					
	2.	Application / Calculation exercises in Labo	ratory				
	2. 3.	Independent Study of Courseware	Tatory				
	5. 4.	Completion of Proficiency Tests					
	4. 5.						
	5.	Completion of Laboratory Assignments					
P:	Textbooks and I	Materials to be Purchased by Students					
	Drooles Eggen	iala fan Onbthalmia I ang Wark. (I atast Ed	tion) Now York Estabild				
	BIOOKS - ESSER	ials for Ophthalmic Lens Work, (Latest Ed	nuon) New Tork, Fairchind				
	Dougla	as College Courseware					
Q:	Means of Asses	sment					
	1	Completion of Proficiency Tests	20%				
	1.	Completion of Proficiency Tests					
	2.	Completion of Laboratory Assignments	20%				
	3.	Midterm Exams	20%				
	4.	Practical Exam	20%				
	5.	Final Exam	20%				
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Midterm and Final Exams will be Written and Practical							

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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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