

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: M, N, P			
			Date Last Revised:	November 14, 2001			
C:	DOPT 2	00 D: DISP	ENSING OPTICIAN THEORY II	E: 7			
	Subject & Cou	arse No.	Descriptive Title	Semester Credits			
F:	Calendar Description: This course provides theory related to eyeglass dispensing at an advanced level. The following content areas are presented: detailed information regarding various instruments used in Optometry and Ophthalmology, specific aspects of optics, detailed information related to lenses for various eye conditions as well as for vocational and specialty lenses, surgical alternatives, analysis and interpretation of selected properties, business practices and professional standards of practice.						
G:	G: Allocation of Contact Hours to Types of Instruction/Learning Settings		H: Course Prerequisites:				
	Primary Method Learning Setting	ds of Instructional Delivery and/or	DOPT 100 + DOPT 112				
	Lecture and Student Directed Learning		I. Course Corequisites: DOPT 210 + DOPT 212				
	Number of Cont descriptor)	tact Hours: (per semester for each	J. Course for which this Course is a Prerequisite:				
	Lecture 90 hrs. Student Directed Learning 90 hrs. Number of Weeks per Semester: 15		DOPT 310				
			K. Maximum Class Size: 35				
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)						
	SEE DU TRANSFER GUIDE FUR TRANSFER DETAILS (WWW.UCCAL.UC.CA)						

M: Course Objectives/Learning Outcomes

Upon Successful Completion the Student will be able to:-

- 1. Apply knowledge of multifocal lenses, application of multifocal lenses
- 2. Be able to give an in depth analysis of the optics of ophthalmic prisms
- 3. Discuss advanced principles of optics and ophthalmic lens design
- 4. Discuss, in depth, prescription analysis as it relates to dispensing and ordering eyewear for advanced prescription types
- 5. Discuss advanced measurement taking and frame selection for advanced prescription types
- 6. Perform an analysis of and calculations on absorptive lenses, vertical imbalance, vertex distance
- 7. Perform advanced evaluation of patient needs
- 8. Discuss in depth the theories of light, refracting surfaces, effects of refracting mediums on rays of light and an in depth study of magnification
- 9. Retain knowledge of intermediate and advanced theory and formulae
- 10. Perform intermediate and advanced optical assessments and optical calculations
- 11. Describe the visual process in detail as well as label and describe the function of each part of the eye
- 12. Describe appropriate patient care

N.

13. Discuss basic optical business management, current eyecare trends and practices

11.		

Geometric Optics II

- 1. The refractive power of lenses advanced including aberrations and distortions
- 2. Base curves, lens materials and coatings
- 3. Calculate the vertex powers of a lens
- 4. Effective & compensated powers due to vertex distance changes
- 5. Image jump in bifocals
- 6. Prismatic effects in bifocals
- 7. Prismatic effects at NVP of multifocal lenses
- 8. Vertical prismatic imbalance & correction in any prescription
- 9. Prism (wanted and unwanted) with bifocals
- 10. Adding prisms together from different meridians
- 11. Separating prism into different meridians
- 12. Adding two prescriptions together

Visual Optics II

- 1. Visual fields and visual pathways
- 2. Conditions requiring high powered lenses
- 3. Designs of high powered lenses
- 4. Lens materials & frames for special prescriptions
- 5. Presbyopic corrections dispensing; lens design/construction
- 6. Vocational lenses and L.V.A.s
- 7. Dispensing lenses by solving problems
- 8. Refractive surgery advanced including ALK and Lasik
- 9. The refracting process
- 10.Ultrasonic scans, cataract surgery and IOLs

Practical Optics II

- 1. Terminology related to optical instruments and ophthalmic lenses advanced
- 2. Functions of instruments used in Ophthalmology, Optometry and Contact Lens Fitting including the keratometer, biomicroscope, Radiuscope, phoropter, ophthalmoscope, retinoscope, tonometer, autorefractor and corneal topographer
- 3. Neutralization of multifocal and specialty lenses
- 4. Interpretation of complex prescriptions
- 5. Lens information by manufacturer
- 6. Standards of practice review
- 7. Professional ethics
- 8. Supervision and responsibility
- 9. Client management
- 10. Professional selling techniques
- 11. Records management

0:	1. Lecture 2. Application / Calculation exercises in classroom 3. Independent study of courseware 4. Independent completion of post tests 5. Completion of field assignments					
P:	Textbooks and Materials to be Purchased by Students Brooks - Boris, System for Ophthalmic Dispensing , (Latest Edition)New York, Fairchild					
	Cassin - Soloman, <u>Dictionary of Eye Terminology</u> , (Latest Edition) Florida, Triad Co.					
	Douglas College Courseware					
	Stein-Slatt, Ophthalmic Assistant, (Latest Edition) St Louis,	МО				
Q:	1. Completion of post tests 20% 2. Midterm exams (X2) 40% 3. Final exam 30% 4. Completion of field assignments 10%					
R:	Prior Learning Assessment and Recognition: specify whether course is open for PLAR					
	Yes					
Cour	Course Designer(s) Educati	on Council/Curriculum Committee Representative				
Dear	Dean/Director Registr	ar				
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