

EFFECTIVE: JANUARY 2013 CURRICULUM GUIDELINES

A.	Division:	Academic	E	fective Date:		January 2013		
В.	Department / Program Area:			evision	X	New Course		
	8			Revision, Section(s) evised:		E, G		
				ate of Previous Revision		February 2012		
~	DODE 1200	D . D		ate of Current Revision	:	May 2012		
C:	DOPT 1200	D: Dispensing (E: 5		
			tive Title Sei		Sem	nester Credits		
F:	Calendar Descri	ption:						
	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, by							
		pecially lenses, surgical alternatives of essional standards of practice.	, anaiy	sis and interpretation o	i seieci	ed properties, busine	ess	
	practices and pro	orespionar standards of practice.						
G:		ontact Hours to Type of Instruction	H:	Course Prerequisites	:			
	/ Learning Setting	ngs		D 0 D 1100 D 0 D				
	Primary Method	s of Instructional Delivery and/or		DOPT 1100 + DOPT	11112			
	Primary Methods of Instructional Delivery and/or Learning Settings:		I:	Course Corequisites:				
	8	· ·		1				
	Lecture Number of Contact Hours: (per week / semester for each descriptor)			DOPT 1210 + DOPT	Г 1212			
			J:	J: Course for which this Course is a Prerequisite				
	for each descript	ioi)		DOPT 1310				
	Lecture 90 hours			20111310				
	Number of Weeks per Semester:		K:	Maximum Class Size	e:			
				20				
	15			30				
	10							
L:	PLEASE INDICATE:							
	Non-Credit							
	X College Credit Non-Transfer							
	College Credit Transfer:							
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)							

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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 ocular pathology and treatment
- 13. Discuss basic optical business management, current eye care trends and practices

N: Course Content:

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 Low Vision Aids
- 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

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Method	ls of Instruction	•				
1	Lecture					
		n classroom				
		i Chassiconi				
5.	Completion of field assignments					
Textbooks and Materials to be Purchased by Students						
	-	materials is provided for students at the beginning of each				
Means of Assessment						
The course evaluation is consistent with Douglas College evaluation policy. An evaluation schedule is presented at the beginning of the course.						
Prior Learning Assessment and Recognition: specify whether course is open for PLAR						
Yes						
se Designe	r(s) DOPT Faculty	Education Council / Curriculum Committee Representative				
/ Director	Dr. Thor Borgford	Registrar				
	Method 1. 2. 3. 4. 5. Textbook A list of semester Means The coupresent Prior Lo	1. Lecture 2. Application / Calculation exercises in 3. Independent study of courseware 4. Independent completion of post tests 5. Completion of field assignments Textbooks and Materials to be Purchased by S. A list of required and optional textbooks and resemble semester. Means of Assessment The course evaluation is consistent with Doug presented at the beginning of the course.				

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