



**Douglas  
College**

## CURRICULUM GUIDELINES

**A:** Division: **HEALTH SCIENCES**  
**B:** Department/ **DISPENSING OPTICIAN**  
Program Area: **PROGRAM**

Date: **October 1, 1999**

New Course ☐

Revision ☒

If Revision, Section(s) Revised: **G. Lecture Time**

Date Last Revised: **April 1, 1996**

**C: DOPT 500 D: CONTACT LENS THEORY II E: 6**

Subject & Course No.	Descriptive Title	Semester Credits
<b>F: Calendar Description:</b> This course provides theory and interpretation of contact lens fitting procedures at an advanced level. It provides the skills to complete the procedure of fitting contact lenses by implementing patient pre-fit evaluation, instrumentation, measurements, trial lens fitting, and post-fit evaluation. It provides students the abilities needed to interpret and apply fitting techniques of specialty contact lenses for difficult visual and / or corneal abnormalities. The course provides basic skills necessary for managing a contact lens practice for effective patient record keeping, relationships and recall systems.		
<b>G: Allocation of Contact Hours to Types of Instruction/Learning Settings</b>  Primary Methods of Instructional Delivery and/or Learning Settings:  <b>Lecture and Student Directed Learning</b>   Number of Contact Hours: (/ semester for each descriptor)  <b>Lecture 60 hrs.</b> <b>Student Directed Learning 100 hrs.</b>   Number of Weeks per Semester: <b>15</b>	<b>H: Course Prerequisites:</b>  <b>DOPT 400 and DOPT 410 and DOPT 412</b>	
	<b>I. Course Corequisites:</b>  <b>DOPT 510 and DOPT 512</b>	
	<b>J. Course for which this Course is a Prerequisite:</b>  <b>DOPT 610</b>	
	<b>K. Maximum Class Size:</b>  <b>35</b>	
<b>L: PLEASE INDICATE:</b> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <input type="checkbox"/> Non-Credit  <input checked="" type="checkbox"/> College Credit Non-Transfer  <input type="checkbox"/> College Credit Transfer: </div> <div style="margin-right: 20px;"> Requested <input type="checkbox"/> </div> <div> Granted <input type="checkbox"/> </div> </div> <p style="text-align: center;">SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (<a href="http://www.bccat.bc.ca">www.bccat.bc.ca</a>)</p>		

**M:** Course Objectives/Learning Outcomes

Upon successful completion, the student will be able to:-

1.     1.1-Define medical and ophthalmic terminology pertaining to contact lens fitting procedures  
        1.2-Describe fitting techniques for rigid and soft contact lenses  
        1.3-Complete the procedure of fitting contact lenses by implementing patient history, pre-fit evaluation, instrumentation measurements, trial lens fitting, and post-fit evaluation
2.     2.1-Apply knowledge of contact lens design and materials to the application and interpretation of specific fitting procedures  
        2.2-Perform Schirmer tear test  
        2.3-Perform tear break up test  
        2.4-Verify visual acuity  
        2.5-Solve fitting problems of rigid and soft contact lenses
3.     3.1-Define Medical and Ophthalmic terminology pertaining to patient contact lens care  
        3.2-Identify adaptive and normal patient contact lens symptoms  
        3.3-Identify physical contact lens related corneal findings  
        3.4-Solve contact lens fitting problems
4.     4.1-Define Medical and Ophthalmic terminology used in Pharmacology  
        4.2-Identify drug classifications related to contact lens related ophthalmic uses  
        4.3-Retain basic knowledge of commonly used drugs in Ophthalmology
5.     5.1-Apply knowledge of contact lens design and materials to the application and interpretation of specialty fittings for the following:-
 

Keratoconus	Astigmatism
Aphakia	Color Blindness
Corneal Bandage	Piggy-Back System
Extended Wear	Athletics
Presbyopia	

6. 6.1-Retain knowledge of managing a contact lens practice in the specific areas of :-
  - fee schedules
  - contact lens insurance
  - effective patient relations
  - patient recall systems
  - inventory advantages
7. 7.1-Define Medical and Ophthalmic terminology pertaining to surgical alternatives to spectacle or contact lens wear

**N: Course Content**

**1. Introduction**

- course content and requirements
- review of Dopt.400
- working partnerships with Ophthalmology and Optometry

**2. Fitting Procedures of Rigid Contact Lenses**

2.1 Ophthalmic Terminology

2.2 Fitting Techniques

- determining lens parameters
- evaluating lens position
- visual acuity verification
- determining lens power

2.3 Fitting Procedures

- the hyperopic eye
- the aphakic eye
- the myopic eye
- alignment fitting philosophy
- intrapalpebral fitting philosophy

2.4 Fit Evaluation

- rigid lens comfort
- blends and peripheral curves
- edge analysis and modification
- solving fitting problems

## **Course Content Continued**

### **3. Fitting Procedures of Soft Contact Lenses**

- 3.1 Ophthalmic Terminology
- 3.2 Lens Materials
- 3.3 Lens Material Application
- 3.4 Lens Design Factors
- 3.5 Lens Design Application
- 3.6 Fitting Procedure
  - general principles
  - fitting methods
  - fitting characteristics
- 3.7 Fit Evaluation
  - biomicroscopy
  - visual acuity verification
  - solving fitting problems

### **4. Follow Up Care**

- ophthalmic terminology
- patient symptom identification
- adaptive versus normal symptoms
- physical findings
- solving physical fitting problems

### **5. Pharmacology**

- ophthalmic terminology
- drug classes and uses
- drug affects on the eye
- drugs used in Ophthalmology

### **6. Special Fittings of Rigid Contact Lenses**

- Ophthalmic terminology
- rigid gas permeable lens types
- orthokeratology
- keratoconus fitting
- high astigmatic fitting
- presbyopia fitting
- colour blindness fitting
- aphakia fitting
- pediatric fitting

**7. Special Fittings of Soft Contact Lenses**

- ophthalmic terminology
- piggy-back systems
- tinted soft lenses
- high astigmatic fitting
- presbyopic fitting
- aphakic fitting
- pediatric fitting
- extended wear fitting
- corneal bandaging
- specific sports

**8. Practice Management**

- fee schedules
- contact lens insurance
- in office lens inventory
- patient recall systems
- professional patient relations

**9. Surgical Alternatives**

- refractive keratoplasty
- keratomileusis
- keratophakis
- epikeratoprotheses
- keratotomy
- intraocular implants

**O: Methods of Instruction**

1. Lecture
2. 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

Mandell, **Contact Lens Practice**, Fourth Edition, Charles C. Thomas Publishing

Stein - Slatt - Stein, **Fitting Guide for Rigid and Soft Contact Lenses** Third Edition, C.V. Mosby Co.

Stein - Slatt - Stein, **A Primer in Ophthalmology**, 1992 Edition, Mosby Yearbook Co.

Douglas College **Contact Lens Manual I**

**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.

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|------------------------------------|-----|
| 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

**NO**

Course Designer(s)

Education Council/Curriculum Committee  
Representative

Dean/Director

Registrar