



**Douglas  
College**

**EFFECTIVE: SEPTEMBER 2002**

## CURRICULUM GUIDELINES

**A:** Division: **HEALTH SCIENCES**

Date: **May 23, 2002**

**B:** Department/ **DISPENSING OPTICIAN**  
Program Area: **PROGRAM**

New Course

Revision

**X**

If Revision, Section(s) Revised: **P**

Date Last Revised:

**November 14, 2001**

**C:** **DOPT 500**

**D:** **CONTACT LENS THEORY II**

**E:** **7**

Subject & Course No.

Descriptive Title

Semester Credits

**F:** Calendar Description:

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 and to identify surgical alternatives available. The course provides basic skills necessary for managing a contact lens practice for effective patient record keeping, relationships and recall systems. It promotes a comprehensive knowledge of professional standards of practice.

**G:** Allocation of Contact Hours to Types of Instruction/Learning Settings

Primary Methods of Instructional Delivery and/or Learning Settings:

**Lecture and Student Directed Learning**

Number of Contact Hours: (per semester for each descriptor)

**Lecture: 90 hrs.**

**Student Directed Learning: 90 hrs.**

Number of Weeks per Semester: **15**

**H:** Course Prerequisites:

**DOPT 400 and DOPT 410 and DOPT 412**

**I.** Course Corequisites:

**DOPT 510 and DOPT 512**

**J.** Course for which this Course is a Prerequisite:

**DOPT 610**

**K.** Maximum Class Size:

**35**

**L:** PLEASE INDICATE:

☐

Non-Credit

☒

College Credit Non-Transfer

☐

College Credit Transfer:

Requested

☐

Granted

☐

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS ([www.bccat.bc.ca](http://www.bccat.bc.ca))

**M:** Course Objectives/Learning Outcomes

Upon successful completion, the student will be able to:

1.   1.1    Review and define terms pertaining to the anatomy and physiology of the human visual system
- 1.2    Review and describe the corneal topography of a healthy eye
- 1.3    Review and describe the physiological defects of the visual system
2.   2.1    Define terms pertaining to refractive surgery in spectacle and contact lens wear
3.   3.1    Define terms pertaining to medications used in ophthalmology
- 3.2    Describe the effects of ophthalmic diagnostic and therapeutic ocular medications
- 3.3    Describe the effects of medications which may be contraindications to contact lens wear
4.   4.1    Describe the aspects of a successful contact lens practice
5.   5.1    Define terminology pertaining to the complete process of both soft and gas permeable contact lens fittings
- 5.2    Describe instruction of proper hygiene and care of contact lenses to a client
- 5.3    Describe a post-fitting evaluation of a contact lens client
- 5.4    Describe when it is appropriate to refer a contact lens client for further care to an Ophthalmologist or Optometrist due to contact lens complications
6.   6.1    Define terms pertaining to specialty and therapeutic contact lens fittings
- 6.2    Describe the fitting of specialty contact lenses on a healthy eye
- 6.3    Describe the fitting of specialty and therapeutic contact lenses on diseased and injured eyes
- 6.4    Describe the fitting of specialty and therapeutic contact lenses on refractive surgery patients
7.   7.1    Apply the Standards of Practice of Dispensing Opticians (Contact Lenses) from the College of Opticians of B.C. pertaining to tools required, optical tolerances and professional conduct through case studies and scenarios.

N: A. Physiological Optics

1. Introduction

1. Course Content and Requirements
2. Review of DOPT 400
3. Working relationships with Ophthalmology and Optometry

2. Anatomy & Physiology

1. Terminology
2. Corneal Topography
3. Physiological Defects of the Eye

3. Refractive Surgery

1. Terminology
2. Corneal Refractive Surgery
3. Intraocular Refractive Surgery

4. Pharmacology

1. Terminology
2. Ophthalmic Diagnostic Agents
3. Ophthalmic Therapeutic Agents
4. Contraindications to Contact Lens Wear

5. Contact Lens Business Management

1. Contact Lens Instruments
2. Office Computerization
3. Practice Location
4. Office Organization and Staffing
5. Client File Management
6. Inventory Management
7. Fee Structures
8. Continuing Education
9. Standards of Practice

**N:** B. Applied Optics

## 1. Gas Permeable Contact Lens Fitting

1. Terminology
2. Pre-fit Ocular Evaluation
3. Gas Permeable Lens Material Selection
4. Gas Permeable Lens Parameter Determination
5. Gas Permeable Lens Insertion and Removal
6. Gas Permeable Lens Patient Compliance
7. Gas Permeable Lens Solutions and Accessories
8. Gas Permeable Lens Follow-up Procedures
9. Gas Permeable Lens Related Complications and Contraindications

## 2. Soft Contact Lens Fitting

1. Terminology
2. Pre-fit Ocular Evaluation
3. Soft Lens Material Selection
4. Soft Lens Parameter Determination
5. Soft Lens Insertion and Removal
6. Soft Lens Patient Compliance
7. Soft Lens Solutions and Accessories
8. Soft Lens Follow-up Procedures
9. Soft Lens Related Complications and Contraindications

## 3. Specialty and Therapeutic Contact Lens Applications

1. Terminology
2. Healthy Eye Applications
3. Diseased Eye Applications
4. Injured Eye Applications
5. Refractive Surgery Applications

**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**, (Latest Edition), Charles C. Thomas Publishing

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

Stein - Slatt - **Ophthalmic Assistant** (Latest Edition) St Louis, MO

Douglas College **Contact Lens Courseware**

**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.

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

Course Designer(s)

Education Council/Curriculum Committee Representative

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Dean/Director

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Registrar

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