

Douglas

CURRICULUM GUIDELINES

College

Date: **January 8, 2001**

A: Division: **HEALTH SCIENCES**

New Course  Program Area: **PROGRAM**

Revision

B: Department/ **DISPENSING OPTICIAN**

If Revision Section(s) Revised: **F, E, C, M, November, 1997, IV, V**

Date Last Revised: **12/14/98**

M: Course Objectives/Learning Outcomes

Upon Successful Completion the Student will be able to -

1. Define Ophthalmic terminology pertaining to clinical evaluation

2. Neutralize a myopic, hyperopic, and astigmatic prescription for an eye with a given axis

3. Define the function of various ophthalmic instruments used in the scope of practice of an optician

N: Course Content

1. Introduction

- course content and requirements
- review of DOPT 100
- working partnerships with Ophthalmology and Optometry

2. Clinical Theory II

- ophthalmic terminology and instrumentation
- neutralizing prescriptions lenses with the lensometer
- neutralizing bifocal, trifocal, and progressive lenses
- functions of instruments used in Ophthalmology and Optometry
  - Autorefractor
  - Keratometer
  - Biometer
  - Ophthalmic Tonometer
  - Microscope
  - Pseudoisochromatic Plates
  - ultrasonic scanning
  - visual field tests

3. Physical Optics II & Applied Math II

- effective and compensated powers of a lens
- vergence of light
- converting vertex power of a lens
- combinations of prescriptions
- combining spherical, spherocylinder, and spherocylinder with opposite lens axis

Applied Optics II : A. Lenses

4. A

ic terms pertaining to surgical alternatives to spectacle and/or contact lens

5. **Surgical Alternatives**  
Medical and ophthalm

