Douglas

CURRICULUM GUIDELINES

College

January 8, 2001

A: Division HEALTH SCIENCES Date:

Program/Area PROGRAM

B: Department DISPENSING OPTICIAN

New Course

Revision

Date Last Revised: March 1, 1995

C: DOPT 100 D: DISPENSING OPTICIAN THEORY E: 3

Course No. Descriptive Title Semester Credits Subject & Course

F: Calendar Description:

This course provides the introductory theory related to eyeglass dispensing. The following content areas are presented: basic

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

Primary Methods of Instructional Delivery and/or Learning Settings

H: Course Prerequisites:

NIL

I: Course Corequisites:

DOPT 112

J. Course for which this Course is a Prerequisite:

DOPT 200 + DOPT 210 + DOPT 212

K: Maximum Class Size

Lecture and Student Directed Learning

semester for each

90 hrs.
90 hrs.

Number of Contact Hours: (per descriptor)
Lecture
Student Directed Learning

ives/Learning Outcomes

M. Course Object

successful completion, the student will be able to:

Upon

Calculate basic mathematical formulas relating to the theory of optics.

1

2. -Define medical and ophthalmic terms pertaining to the anatomy and physiology of the eye.

3. 3.1 -Define scientific and ophthalmic terms pertaining to optics.

3.2 Calculate the angle of deviation of a prism, the power of a prism lens,

surface curvature and focal power.

3.3 -Apply information pertaining to vergencies.

4. 4.1 -Define scientific and ophthalmic terms pertaining to lenses.

4.2 -Apply knowledge of lens materials, tinting and coatings, and safety aspects of lenses.

4.3 -Transpose prescriptions.

4.4 -Determine unknown values with power crossed.

4.5 -Determine optimum lens blank size.

5. -Define ophthalmic terms pertaining to analysis and interpretation

N: Course Content

dge to code of ethics and practice standards
-Responsibilities to the consumer of Vision Health Care products
-review of pre-required optical facility rou

2. Anatomy & Physiology
-terminology
-structure of the eye
-physiology of the eye
-conditions of the eye
-pathologies & abnormalities
-refractive errors
-strabismus

3. Applied Math & Math Review
-order of arithmetic operations
-rounding numbers
-metric conversions
-scientific notation
-right angle triangles
-how to solve equations
-how to graph equations
-trigonometric functions
-vector analysis

ory of light
sms: -power of prisms
-deviations of light by calculation
ell's Law
face curvature
-focal power & calculation

Medical and ophthalmic terms pertaining
lens wear, including the following:
-refractive keratoplasty
-keratomileusis
-keratophakia
-epikeratoprosthesis
-radial keratotomy
-intraocular lens implants

N: Course Content cont'd

6. **Standards of Practice**
-client management
-records management

ervision and responsibility
essional ethics
pment for dispensing eyeglasses

-supe
-prof
-equi

-tolerance for dispensing eyeglasses

O: Methods of Instruction

1. Lecture
2. Application / Calculation exercises in classroom
3. Independent study of courseware
4. Independent completion of post tests
5. Completion of field assignments

Materials to be Purchased by Students

P: Textbooks and M

Boris System for Ophthalmic Dispensing (latest edition) New York: Harcourt Brooks

Douglas College 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.

ent and Recognition specify whether course is open for PLAR

R: Prior Learning Assessm

No

Curriculum Committee Representative

Course Designer(s)

Education Council

Registrar

Dean/Director