Douglas College

EFFEC

M: Course Objectives/Learning Outcomes

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

1. Apply knowledge of lens surfacing to dispensing and edging skills
2. Perform lens surfacing
3. Verify the powers of multifocal and progressive lenses
4. Calculate vertical and horizontal centration of multifocal and progressive lenses
5. Block and edge multifocal and progressive lenses
6. Identify and tint various plastic lens materials
7. Customize frame designs for patient needs
8. Repair various plastic frame materials
9. Perform repairs to broken frame hinges, screws and pins
10. Repair metal frames by soldering

N: Course Content

1. Introduction

-course content and requirements
-orientation to surfacing equipment
-an overview of the surfacing process
-industry standard charts for surfacing
-safety procedures in the surfacing laboratory

2. Surfacing

2.1 Analysis of Opticians Order

-validation of completed prescription
-prism for optical centering

2.2 Computing

-entering information
-blank size requirements
-determining lens material
-determining index of refraction

2.3 Lay-Out

-interpreting computer grinding and lay-out instructions
-laps for fining and polishing
-axis of prisms
-grinding base curve
-cross curves
-front curves
-lens thickness
-tool selection
-elliptical factors

DOPT 212 Dispe

Q: Means of Assessment

1.	Completion of Proficiency Tests	20%
2.	Completion of Laboratory Assignments	20%
3.	Midterm Exams	20%
4.	Practical Exam	20%
5.	Final Exam	20%

Midterm and Final Exams will be Written and Practical

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

Yes

Course DesMea