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M: Course Objectives/Learning Outcomes

Upon Successful Completion the Student will be able to:-

1. Apply knowledge of multifocal lenses, application of multifocal lenses
2. Be able to give an in depth analysis of the optics of ophthalmic prisms
3. Discuss advanced principles of optics and ophthalmic lens design
4. Discuss, in depth, prescription analysis as it relates to dispensing and ordering eyewear for advanced prescription types
5. Discuss advanced measurement taking and frame selection for advanced prescription types
6. Perform an analysis of and calculations on absorptive lenses, vertical imbalance, vertex distance
7. Perform advanced evaluation of patient needs
8. Discuss in depth the theories of light, refracting surfaces, effects of refracting mediums on rays of light and an in depth study of magnification
9. Retain knowledge of intermediate and advanced theory and formulae
10. Perform intermediate and advanced optical assessments and optical calculations
11. Describe the visual process in detail as well as label and describe the function of each part of the eye
12. Describe appropriate patient care
13. Discuss basic optical business management, current eyecare trends and practices

N:

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

P: Textbooks and Materials to be Purchased by Students

Brooks - Boris, **System for Ophthalmic Dispensing**, (Latest Edition) New York, Fairchild

Cassin - Soloman, **Dictionary of Eye Terminology**, (Latest Edition) Florida, Triad Co.

Douglas College Courseware

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

Q: Means of Assessment

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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

Yes

Course Designer(s)

Education Council/Curriculum Committee Representative

Dean/Director

Registrar

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