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M: Course Objecti

N: Geometric Optics I

1. Signed arithmetic, review of basic algebra, geometry and trigonometry necessary to evaluate optical formulas
2. Metric system of measurements
3. Proper use of a scientific calculator in optics
4. Review of right angle triangles
5. Theories of light - waves vs particles
6. The electromagnetic spectrum
7. Deviation of light by different mediums - refractive index
8. Ophthalmic prisms
9. Snell's Law and other related optical formulae
10. Calculations for surface curvature and focal power
11. The refractive power of lenses and power crosses

Visual Optics I

1. Terminology associated with the eye and vision

Visual Optics II

1. Refraction of light by the eye
2. Dispersion of light by the eye
3. Accommodation of the eye
4. Visual acuity
5. Visual angle
6. Visual distance
7. Visual field
8. Visual pathway
9. Visual processing
10. Visual perception
11. Visual adaptation
12. Visual fatigue
13. Visual ergonomics
14. Visual safety
15. Visual health
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P:	<p>Textbooks and Materials to be Purchased by Students</p> <p style="padding-left: 40px;">Brooks - Boris, <u>System for Ophthalmic Dispensing</u>, (Latest edition) New York, Fairchild</p> <p style="padding-left: 40px;">Cassin - Soloman, <u>Dictionary of Eye Terminology</u>, (Latest Edition) Florida, Triad Co.</p> <p style="padding-left: 40px;">Brooks, <u>Essentials for Ophthalmic Lens Work</u>, (Latest Edition) New York, Fairchild</p> <p style="padding-left: 40px;"><u>Douglas College Courseware</u></p> <p style="padding-left: 40px;">Stein - Slatt, <u>The Ophthalmic Assistant</u>, (Latest Edition) St. Louis, MO</p>								
Q:	<p>Means of Assessment</p> <p>Evaluations of the course will be based on the course objectives in accordance with Douglas College policies. Evaluation methods will include written tests and assignments.</p> <table style="margin-left: 40px; width: 80%;"> <tr> <td>1. Completion of post tests (X 2)</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>2. Midterm exams (X 2)</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>3. Final exam</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>4. Completion of field assignments</td> <td style="text-align: right;">10%</td> </tr> </table>	1. Completion of post tests (X 2)	30%	2. Midterm exams (X 2)	30%	3. Final exam	30%	4. Completion of field assignments	10%
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2. Midterm exams (X 2)	30%								
3. Final exam	30%								
4. Completion of field assignments	10%								
R:	<p>Prior Learning Assessment and Recognition: specify whether course is open for PLAR</p> <p style="padding-left: 40px;">Yes</p>								

Course Designer(s)

Education Council/Curriculum Committee Representative

Dean/Director

Registrar

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