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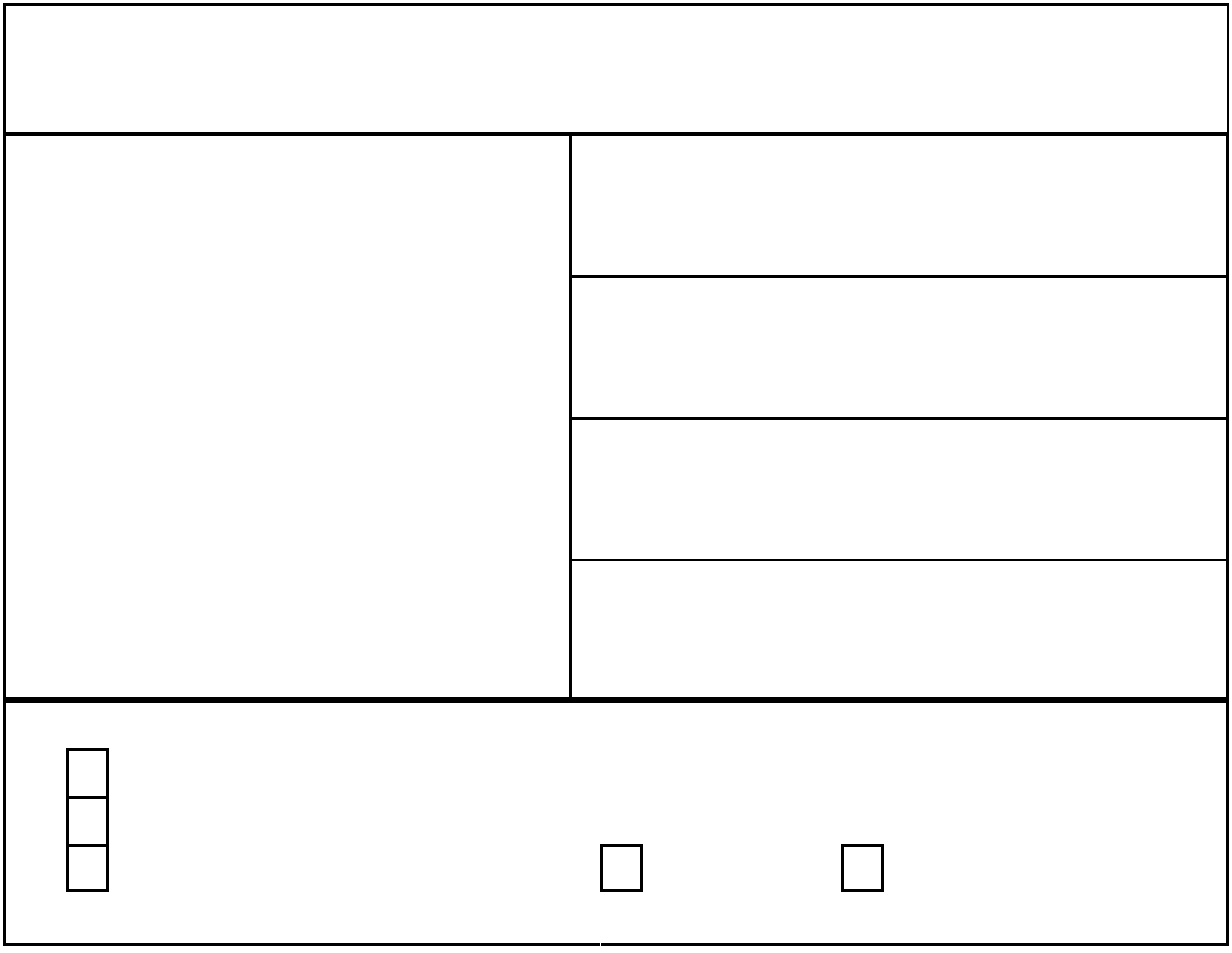

M: Course Objecti

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. Terminolog

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.

Brooks, **Essentials for Ophthalmic Lens Work**, (Latest Edition) New York, Fairchild

Douglas College Courseware

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

Q: Means of Assessment

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.

1. Completion of post tests (X 2)	30%
2. Midterm exams (X 2)	30%
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