



**Douglas  
College**

## **CURRICULUM GUIDELINES**

**A.** Division: **INSTRUCTIONAL**

Effective Date:

**September 2003**

**B.** Department /  
Program Area: **LANGUAGE, LITERATURE  
AND PERFORMING ARTS**

Revision

New Course

If Revision, Section(s)

**G, H, M, P, R**

Revised:

Date of Previous Revision:

Date of Curren

**M:** Course Objectives / Learning Outcomes

Upon completion of the course the successful student should be able to:

1. Demonstrate safe working procedures and precautions when dealing with theatrical luminaires and related equipment;
2. Demonstrate a working knowledge of theatrical luminaires including:
  - Basic lens and reflector characteristics
  - Theatrical light sources
  - Function and use of theatrical luminaires
3. Demonstrate a working knowledge of the procedures and techniques for hanging and focusing of theatrical luminaires;
4. Understand basic electrical theory and practices for the stage;
5. Be familiar with the theatrical community within the GVRD.

**N:** Course Content:

1. Basic Theory of Optics
  - 1.1 Composition of light
  - 1.2 Reflection: spherical, ellipsoidal, parabolic
  - 1.3 Refraction: fresnel, stepped, plano-convex
2. Light Sources
  - 2.1 Incandescent
  - 2.2 Tungsten – halogen
  - 2.3 Arc and discharge
  - 2.4 Other sources including fluorescent, laser, fiber optics, low voltage
3. Equipment
  - 3.1 Lens and lensless luminaries
  - 3.2 Spots and floods: fresnel, projectors, floods and scoops, par and r, follow spots
4. Hang and Focus
  - 4.1 The light plot and schedules
  - 4.2 Selection and preparation
  - 4.3 Circuitry and patch
  - 4.4 Trouble shooting and repair
  - 4.5 Focus
5. Basic Electricity for the Stage
  - 5.1 Basic electrical theory
  - 5.2 Quantities and measurement
  - 5.3 Basic wiring and maintenance for luminaries and cable

**O:** Methods of Instruction

Students will receive 1 to 1 ½ hours of lecture/demonstration followed by 2 ½ hours of lab that includes independent work and one-on-one instruction.

**P:** Textbooks and Materials to be Purchased by Students

A list of recommended textbooks and materials is provided on the Instructor's Course Outline, which is available to students at the beginning of each semester.

Example:

