

**RARITAN VALLEY COMMUNITY COLLEGE  
ACADEMIC COURSE OUTLINE**

**OPTH-116 OPHTHALMIC DISPENSING II LAB**

**I. Basic course Information**

A. Course Number and Title: OPTH-116 Ophthalmic Dispensing II Lab

B. Modified Course

C. Date of Proposal: Semester: Spring Year: 2017

**D. Effective Term: Fall 2017**

E. Sponsoring Department: Health Science Education

F. Semester Credit Hours: 2

G. Weekly Contact Hours: Laboratory: 4

Out of class student work per week: 4

H. Prerequisites: OPTH-115 - Ophthalmic Dispensing I Lab

I. Laboratory Fees: Yes

J. Department Chairperson: Beryl Stetson, 908-526-1200 ext. 8877

**II. Catalog Description**

Prerequisite: OPTH-115 - Ophthalmic Dispensing I Lab

A continuation of Ophthalmic Dispensing I Lab. Topics include neutralization and verification of bifocal, trifocal and progressive multifocal prescriptions; usage and theory of the vision screening unit; discussion of therapeutic appliances; discussion of the visual need of the aphakic and subnormal acuity patient; occupational and vocational frame and lens design; interpretation of the ophthalmic patient's written prescription and the determination of their visual needs. The fitting, adjusting and measuring of ophthalmic frames and mountings, as well as the ethics, laws and regulations of the profession of opticianry, will be discussed. Students will be expected to demonstrate these skills through direct patient contact in the on-campus optical clinic. A portion of the student's laboratory time will be spent meeting patient needs in the optical clinic. (Students will be required to supply their own tools and instruments.)

### **III. Statement of Course Need:**

- A. This is a required course for the Ophthalmic Science-AAS degree, and Ophthalmic science (Opticianry) Certificate- Apprenticeship Option.
- B. This course is not designed for transfer.

### **IV. Place of Course in College Curriculum**

- A. Free Elective
- B. This is a required course for both the Ophthalmic Science-AAS degree, and Ophthalmic Science ( Opticianry) Certificate- Apprenticeship Option.

### **V. Outline of Course Content**

- A. Course requirements, independent project requirements, frame repairs, discussion and demonstration. Review of the optical clinic procedures; dress code, scheduling, and assessment.
- B. Frame repairs, ordering and verification, laboratory practice, project completion and neutralization.
- C. Bifocal, trifocal and progressive lens segment heights, theory and application, measurement techniques, vertical decentration, laboratory practice project completion and neutralizations.
- D. Optical aids, special purpose frames, ptosis crutch, entropian crutch, hemianopic spectacles, moist chamber, laboratory practice, project completion and neutralizations.
- E. Low vision aids, spectacle aids, hand held aids, hands-free aids, function, theory and application, computer aids, AMD, laboratory practice, project completion and neutralizations.
- F. Progressive lens designs and fitting, parameters, varilux demonstrator, Grolman fitting device, visual screening and its laws, purpose, application and usage; neutralizations.
- G. Mid-term review, laboratory practice, project completion and neutralizations.
- H. Occupational/vocational lens design, fitting parameters and fitting techniques, laboratory practice, project completion and neutralizations.
- I. Troubleshooting fitting and visual problems of the patient, laboratory practice, project completion and neutralizations.
- J. Difficult fitting situations and problems, role playing, creative dispensing solutions, unusual solutions and frame designs, laboratory practice, project completion and neutralizations.

## **VI. General Educational and Course Learning Outcomes**

### **A. General Education Learning Outcomes**

**At the completion of the course the student will be able to:**

1. Discuss optical aids and their applications to the patient that requires their usage. (GE-NJ 1).

### **B. Course Learning Outcomes**

**At the completion of the course the student will be able to:**

1. Demonstrate the required clinical skills to accurately neutralize any Rx, including single vision, bifocal, trifocal and progressive multifocal lense styles within the NJ minimum standards and tolerances.
2. Determine and measure the correct placement of multifocals in any frame or mounting, measure the patient's pupillary distance including the use of the pupilometer, and accurately measure vertex distance, utilizing the distometer.
3. Demonstrate the clinical skills required to interpret any Rx, and to fit, adjust and dispense any Rx in any frame or mounting in accordance with the procedures delineated in the text.
4. Properly conduct a vision screening examination according to the standards discussed in lecture.
5. Discuss the fundamentals of the laws and ethics of the profession of opticianry; and to provide a clear definition of the conduct expected of an Optician between the patient, refractionist and other optical and medical professionals.
6. Demonstrate the clinical skills required to perform a variety of frame repairs according to the standards discussed in class and in the text.
7. Discuss optical aids and their applications to the patient that requires their usage.
8. Explain the application of low vision aids and their application to human vision and macular degeneration.
9. Demonstrate a thorough understanding of the variety of progressive lenses in the marketplace and their fitting parameters.
10. Interpret, measure and fulfill the visual requirements of patients with occupational, vocational, sport and/or dresswear demands while working in the on-campus clinic.

### **C. Assessment Instruments**

1. laboratory products
2. written examinations
3. practical examinations

### **VII. Grade Determinants**

- A. examinations

Given the goals and outcomes described above, LIST the primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. lecture/discussion
- B. small group work
- C. computer assisted instruction
- D. laboratory
- E. simulation/role playing

### **VIII. Texts and Materials**

- A. Brooks, Clifford and Borisch, Irving. Systems for Ophthalmic Dispensing, Third Ed. Stoneham, MA.: Butterworths, 2007.
- B. supplemental Handouts
- C. power point presentations
- D. film and video

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

### **IX. Resources**

- A. Ophthalmic dispensing laboratory
- B. Computer
- C. Projection equipment.