

**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. New or Modified Course: Modified

C. Date of Proposal: Semester: Fall Year: 2025

**D. Effective Term: Fall 2026**

E. Sponsoring Department: Health Science Education

F. Semester Credit Hours: 2

G. Weekly Contact Hours: 4

Laboratory: 4

Out of class student work per week: 4

H.  Prerequisite (s): grade of C or higher in OPTH 111 Ophthalmic Dispensing I  
Lecture and OPTH 115 Ophthalmic Dispensing I Lab

Corequisite (s): OPTH 112 Ophthalmic Dispensing II Lecture

I. Additional Fees: No

**II. Catalog Description**

Prerequisite: grade of C or higher in OPTH-111 Ophthalmic Dispensing I Lecture and  
OPTH 115 Ophthalmic Dispensing I Lab

Corequisite: OPTH 112 Ophthalmic Dispensing II Lecture

Application of Ophthalmic Dispensing I Lecture. A further study of prescription analysis including visual problems of the aphakic patient, crossed cylinders, consideration of illumination and its effect on visual performance, the psychology of dispensing, the near addition and iseikonic lens design. Minimum grade of C required.

**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. There is no lab component.
- C. This course is not designed for transfer.

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

- A. Free Elective
- B. This is a required course for the Ophthalmic Science-AAS degree, and Ophthalmic science (Opticianry) Certificate- Apprenticeship Option.
- C. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, [www.njtransfer.org](http://www.njtransfer.org); b) for all other colleges and universities, go to the individual websites.

#### **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, entropion 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. A. Course 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.

2. 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.
3. Apply clinical skills for the correct horizontal and vertical placement of multifocals in any frame or mounting including measuring the patient's pupillary distance.
4. Accurately measure vertex distance, utilizing the distometer.
5. Demonstrate the clinical skills required to interpret any Rx.
6. Demonstrate the clinical skills required to fit, adjust and dispense any Rx in any frame or mounting in accordance with industry standards.
7. Conduct a vision screening examination according to industry standards
8. Discuss the fundamentals of the laws and ethics of the profession of opticianry.
9. Reinforce principles of professionalism as they relate to the role of the Optician.
10. Demonstrate the clinical skills required to perform a variety of frame repairs according to industry standards
11. Discuss optical aids and their applications to the patient that requires their usage.
12. Explain the application of low vision aids to correct or assist human vision.
13. Demonstrate a thorough understanding of the variety of progressive lenses in the marketplace and their fitting parameters.
14. Interpret, measure, and fulfill the visual requirements of patients with occupational, vocational, sport and/or dresswear demands while working in the on-campus clinic.

**B. Assessment Instruments**

1. Laboratory products
2. Written examinations
3. Practical examinations

**VII. Grade Determinants**

- A. Laboratory products
- B. Written examinations
- C. Practical 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, Fourth Ed. Stoneham, MA.: Butterworth, 2024.
- 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. RVCC Library

**X. Check One:**  Honors Course  N/A