RARITAN VALLEY COMMUNITY COLLEGE
ACADEMIC COURSE OUTLINE

OPTH 201 CONTACT LENSES II

I. Basic Course Information

A. Course Number and Title: OPTH 201 Contact Lenses II

B. Modified Course

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

D. Effective Term: Fall 2026

E. Sponsoring Department: Health Science Education

F. Semester Credit Hours: 3

G. Weekly Contact Hours: 3 Lecture: 2

Laboratory: 2

Out of class student work per week: 4

H. ☒ Prerequisite (s): Grade of C or higher OPTH 200 Contact Lenses I

☐ Corequisite (s): None

I. Additional Fees: No

II. Catalog Description

Prerequisite: Grade of C or higher OPTH 200 Contact Lenses I

This course includes clinical application of corneal measurements; lens/cornea evaluation criteria; lens selection parameters; theory of over-refraction; lens verification techniques and tolerances; patient education and principles of practice management. Minimum grade C required.

III. Statement of Course Need

A. This course meets a program requirement for the Ophthalmic Science (Opticianry) AAS degree.
B. This course has no lab component.
C. Please describe the transferability of this course:
    a. 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.

V. Outline of Course Content

A. Patient pre-fit evaluation: General history, ocular history, visual habits, occupational/vocational requirements, environmental conditions, refractive error status, visual acuity assessment.

B. Biomicroscopy: Illumination/magnification fundamentals, usage and application of instrument, ocular health screening, tear film evaluation, fluorescein instillation, tear break-up time, tear, meniscus evaluation.

C. Keratometry: Operation and application of instrument, calibration, patient measurements and recording.

D. Lens Selection: Material, power, curve determination, diameter, patient insertion and removal techniques.

E. Evaluation of lens/cornea relationship, application of Biomicroscope, fluorescein pattern evaluation, lens modification, S.A.M./F.A.P. principles, movement, centration.

F. Subjective acuity assessment, principles of over-refraction, operation of the phoropter, determination of sphere, cylinder, axis, determination of final lens power and parameters, lens ordering.

G. Lens Verification: Operation and application of the radiuscope, thickness gauge, diameter gauge and measuring magnifier. Disinfection and storage of trial lenses.

H. Patient Evaluation: Lens care and handling, insertion/removal, disinfection procedures, cleaning procedures, lens storage, lens solutions.

I. Patient Follow-up Care: Lens evaluation, ocular health screening, reinforcement of lens care and handling. Practice management principles.

VI. <u>A. Course Learning Outcomes</u>

At the completion of the course, students will be able to:

1. Describe the proper use and function of the instrumentation used in fitting contact lenses (GE-4)
2. Demonstrate knowledge of a healthy/unhealthy cornea and/or pre-corneal tear film by utilizing the biomicroscope to perform a pre-fit evaluation.
3. Demonstrate proficiency in the proper utilization of the keratometer to obtain corneal radius measurements within ±.50 diopter of the instructor's readings.
4. Describe and demonstrate the correct procedure for insertion and removal of any type of contact lens.
5. Analyze the contact lens/corneal relationship according to the parameters provided by manipulating the biomicroscope and examining the lens *in situ*.
6. Demonstrate proficiency in the evaluation skills required in determining the RGP/Corneal relationship according to the flourescein pattern presented *in situ*.
7. Operate the phoropter to accurately over-refract a contact lens patient according to a standard procedure and within ±.50 diopter of the instructor's manifest prescription.
8. Demonstrate knowledge of and proficiency at utilizing the appropriate instrumentation of the profession to verify the parameters of a rigid contact lens with the applicable A.N.S.I. specification.
9. Apply the proper knowledge of patient education techniques for insertion, removal, cleaning, disinfecting and storage of all categories of contact lenses.

B. Assessment Instruments

1. laboratory exercises
2. demonstrations
3. written examinations

VII. Grade Determinants

A. laboratory exercises
B. Demonstrations
C. written 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 exercises
E. simulation/role playing

VIII. Texts and Materials

A. Donshik, P. (Ed.)(2017). Contact Lens manual: A comprehensive study and reference guide. CLSA: VA.

B. Video resources
C. power point presentations
D. web sources

(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.)

XI. Resources

A. Computer
B. RVCC Library
C. Contact lens laboratory. The laboratory needs to be equipped with a sink, refraction equipment, contact lenses, biomicroscopes and keratometer along with numerous hand instruments.

X. Check One: ☐Honors Course ☒ N/A