



# OPTICIANRY

Program Guide and  
Student Handbook



Reynolds Community College  
School of Health Professions

Associate in Applied Science Degree  
&  
Opticians Apprentice Career Studies Certificate



## WELCOME TO REYNOLDS COMMUNITY COLLEGE

Welcome and thank you for your interest in the Opticianry Program at Reynolds Community College. We hope you will find the following information beneficial. This packet contains information about the field of Opticianry, Virginia Opticians' Board licensing requirements and specific information concerning the two programs we offer. The first part of this packet is a guide to familiarize yourself with the Opticianry programs and the steps for acceptance. The second part of the packet is the Opticianry program's student handbook and outlines the policies specific to our program.

General information about Reynolds Community College, financial aid and college admissions can be found at the college website [www.reynolds.edu](http://www.reynolds.edu)

The Opticianry program has the following course offerings available:

- **Lecture courses may be on campus during the day with a 2 day a week schedule, hybrid with a one day a week campus meeting and/or on the internet with virtual classes once a week.** These courses are offered in both the associate degree program and the opticians apprentice career studies certificate program.
- **Clinical courses are offered on campus during the day or evening with a 2 day a week schedule and/or distance clinical courses that are completed at an assigned clinical site in your area or at your current place of employment when applicable.**

The faculty wishes you much success in your academic pursuit of an associate degree or career studies certificate in Opticianry. If you need assistance of any kind, do not hesitate to contact the program director. Directions to our campus may be found on the college website.

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## OVERVIEW OF THE OPHTHALMIC PROFESSIONS

**OPTICIAN** – an eye care professional who has the responsibility for the dispensing of eyewear, including spectacles, contact lenses, low-vision aids, and accessories. The optician may fabricate, verify, and fit eyeglasses, contact lenses and other optical devices upon the written prescription of a medical doctor or doctor of optometry. Once presented with this prescription, an optician is responsible for analyzing and interpreting the prescription to determine the best products to match the patient's lifestyle and visual demands. State licensure is required in Virginia to become an Optician.

**OPTOMETRIST** - Doctors of Optometry (O.D.) are the independent primary health care professionals for the eye. Optometrists examine, diagnose, treat, and manage diseases, injuries, and disorders of the visual system, the eye, and associated structures as well as identify related systemic conditions affecting the eye.

**OPHTHALMOLOGIST** –Doctors of Medicine (M.D.) a medical or osteopathic doctor who specializes in eye and vision care. Ophthalmologists are specially trained to provide the full spectrum of eye care, from prescribing glasses and contact lenses to complex and delicate eye surgery. A board certified ophthalmologist has passed a rigorous two-part examination given by the American Board of Ophthalmology designed to assess his/her knowledge, experience and skills.

**OPTOMETRIC PERSONNEL**- The optometric assistant or technician is a person trained to assist an Optometrist. Their duties may include, but not limited to: office skills, patient data collection & entry, help in various pre-testing, instruction of contact lens care, and adjustment of eyeglasses.

**OPHTHALMIC PERSONNEL**- An ophthalmic assistant or technician is a member of the eye care team who performs tasks that may include, but not limited to: refraction, contact lens fitting, pre-test, pre-screening, medical history, and office management for the Ophthalmologist.

## PROGRAM DESCRIPTION

The college is accredited by the Southern Association of Colleges and Schools. The program is nationally accredited by the Commission on Opticianry Accreditation and a member of the National Federation of Opticianry Schools. The Opticianry program is designed to prepare individuals in the art and science of all phases of the making, fitting and dispensing of eyewear and contact lenses.

Commission on Opticianry Accreditation  
PO Box 592 Canton, NY 13617  
Phone: (703) 468-0566

The courses give a basis for many different employment opportunities in the optical field, but are primarily designed to provide the education needed to have a successful career as an **OPTICIAN**. Graduation from the program may lead to one of the following occupational goals: optician, private practitioner, ophthalmic dispenser, optical laboratory manager, contact lens technician, branch manager, optical laboratory technician, ophthalmic sales representative, ophthalmic research technician, instructor in ophthalmic dispensing.

Completion of the Opticianry degree program results in the conferring of the Associate in Applied Science Degree in Opticianry and prepares the student for the licensing examinations required in Virginia and most other licensed states. Completion of the Opticians Apprentice Certificate satisfies the related instruction component of the Virginia State Apprenticeship program and is not a stand-alone certificate for employment or licensure.

### **PROGRAM MISSION STATEMENT**

To provide quality education in the profession of Opticianry resulting in an Associate in Applied Science Degree and to prepare graduates for employment meeting the needs of the workforce. As an equal opportunity institution, Reynolds welcomes all and encourages its students to seek excellence in their studies.

### **PROGRAM GOALS**

1. To add qualified professionals who can interpret prescriptions, fabricate eyewear, dispense spectacles and contact lenses, communicate effectively, utilize sales techniques, and are self-competent to serve the visual needs of the public.
2. To prepare graduates for successful employment in the optical field.
3. To prepare Opticianry students for successful completion of national certification and/or state licensing exams.
4. To maintain qualified faculty that meet and/or exceed the standards set forth by the Commission on Opticianry Accreditation and provide professional development opportunities.
5. To maintain program accreditation.
6. To eliminate hazardous waste and to reduce non-hazardous waste to the minimum levels economically and technically practical, and to be in full compliance with all federal and state environmental regulations.

### **PROGRAM OBJECTIVES**

1. Graduates will be able to demonstrate theoretical and technical optical knowledge at a level of a licensed optician in the state of Virginia and other states requiring accreditation with similar requirements.
2. Graduates will be able to demonstrate clinical optical skills at a level of a licensed optician in the state of Virginia and other states requiring accreditation with similar requirements. .
3. Graduates will be able to demonstrate clinical competency in basic contact lens fitting.
4. Graduates will be able to demonstrate entry level business skills within the Opticianry profession.

### **AAS PROGRAM REQUIREMENTS**

To earn the A.A.S. Degree in Opticianry, a total of 65 credit hours must be successfully completed. The Opticianry program is a designed to be a five semester, two-year, full-time program. The required courses are a mixture of humanities, social sciences, science, business, and Opticianry courses designed to prepare the student for a career in the eye care industry. The optical courses are sequential, therefore, the student cannot continue into a higher course without successfully completing the prerequisite course(s).

## LICENSURE IN THE STATE OF VIRGINIA

According to the DPOR Virginia Board of Hearing Aid Specialists and Opticians Rules and Regulations:

*Part 1 Entry 18 VAC 100-20-10 section 5.*

An applicant has to complete one of the following education requirements to sit for the opticianry state board-licensing exam:

1. An approved two-year course in a school of opticianry, including the study of topics essential to qualify for practicing as an optician **(the AAS degree program)**;  
OR
2. A two-year on the job apprenticeship with a minimum of one school year of related instruction **(the Optician Apprentice CSC program)** while registered in the apprenticeship program in accordance with the standards established by the VA State Department of Labor and Industry Division of Apprenticeship Training.

Virginia Board for Hearing Aid Specialists and Opticians, Richmond VA 804-367-8569  
Department of Professional and Occupational Regulation <http://www.dpor.virginia.gov/>

## EXAM AND EMPLOYMENT STATISTICS

The program has a strong track record of enabling students to successfully pass their state boards and gain employment in the optical industry. In the year's that employment is not 100%, the graduate decided to continue their education in lieu of employment. Exam rates are based on graduate's ability to pass on the 1st attempt.

	2018	2019	2020	2021	2022	2023
ABO	100%	100%	100%	100%	100%	100%
NCLE	100%	100%	100%	100%	100%	100%
State Board	100%	100%	100%	100%	100%	100%
Employment	100%	100%	93%	100%	100%	94%

## SHP PROGRAM CLINICAL COURSE OFFERINGS

The college offers this program in affiliation with the healthcare agencies and practitioners in the community. The college relies on its community affiliates to provide clinical education opportunities for its students and expert clinical preceptors for many courses. The frequent rapid changes in healthcare law, standards of practice, technology, and content of credentialing examinations increasingly necessitates sudden changes in the program's course content, policies, procedures and course scheduling. As a result, the college cannot guarantee every student continuous and uninterrupted clinical and course instruction as outlined in the printed catalog curriculum for this program. Circumstances beyond the control of the college may necessitate the postponement of course offerings or changes in the sequencing and/or location of scheduled courses or clinical assignments. Additionally, the college may have to change the instructor for courses after instruction has started.

## STEPS TO FOLLOW FOR ACCEPTANCE INTO THE AAS DEGREE PROGRAM

1. **Complete the Reynolds Community College online application form.** (There is no fee for applying) The “Apply NOW” link is on our website: [www.reynolds.edu](http://www.reynolds.edu)
2. **Send all transcripts** from high school and any prior colleges attended to Reynolds Registrar’s office. They must be official copies. Electronic submissions are best whenever available. Allow 10-14 days for delivery and review of hard copy submissions.
3. **Apply for any Financial Aid (if needed).** You can apply for Aid on the college website also. Aid applications usually take at least 2 months to process. It is **very important** to get it done immediately if you are dependent upon the results for enrollment. Only one application is needed to apply for aid for both the fall and spring semesters but a separate application is required if you want to get aid in the summer semester.

**IF Applicable: Students whose primary language is not English** must either complete the college’s English language proficiency testing or submit required documentation for a waiver of these tests prior to registration. Non-native speakers may be restricted to [English as a Second Language \(ESL\)](#) classes, and will be expected to complete these before progressing to Math and English Placement tests and most other classes. For additional information, please schedule an appointment with an ESL Advisor in Building B, Room 364, Parham Road campus by calling 804.523-5020.

4. **Have an interview with the Program head/Faculty Advisor.** Interviews can be arranged by contacting Ms. Pelkey directly via email or phone.

**Once all 4 of these items have been completed, the applicant’s folder is coded complete, and acceptance is granted (space permitting).**

**New class cohorts for the degree typically start in the Fall semester, however if enrollment is strong enough, we may offer a Spring accelerated semester start with our online courses for students with prior experience.**

## AAS DEGREE OPTICIANRY CURRICULUM

Course Prefix	Course Number	Course Title	LEC. HRS.	LAB. HRS.	CRS. CRE
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### Fall Term

OPT	150	Optical Laboratory Theory I	3	0	3
OPT	152	Optical Laboratory Clinical I	0	6	3
OPT	121*	Optical Theory I	3	0	3
SDV	101	Orientation to Health Sciences	1	0	1
MTH	111*	Basic Technical Mathematics	<u>3</u>	<u>0</u>	<u>3</u>
Total			10	6	13

### Spring Term

OPT	151	Optical Laboratory Theory II	3	0	3
OPT	153	Optical Laboratory Clinical II	0	6	3
OPT	122	Optical Theory II	3	0	3
ENG	111	English Composition I	3	0	3
OPT	105	Anatomy, Physiology, and Pathology of the Eye	<u>3</u>	<u>0</u>	<u>3</u>
Total			12	6	15

### Summer Term

OPT	160	Optical Dispensing Theory I	3	0	3
OPT	165	Optical Dispensing Clinical I	0	4	2
OPT	273	Contact Lens I	2	2	3
ENG	112	College Composition II	<u>3</u>	<u>0</u>	<u>3</u>
Total			8	6	11

### Fall Term

OPT	260	Optical Dispensing Theory II	3	0	3
OPT	271	Optical Dispensing Clinical II	0	12	3
OPT	274	Contact Lens II	3	2	4
—	—	Humanities Elective (ASL 125, PHI 220, REL 230)	<u>3</u>	<u>0</u>	<u>3</u>
Total			9	14	13

### Spring Term

OPT	154	Optical Business Management	3	0	3
OPT	280	Contact Lens I	2	4	4
OPT	272	Optical Dispensing Clinical III	0	12	3
—	—	Social Science Elective (ECO 201, PSY 200, PSY 230)	<u>3</u>	<u>0</u>	<u>3</u>
Total			8	16	13

Total Minimum Credits for AAS Degree in Opticianry	65
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\*Math 111 is a co-requisite for OPT 121

**Students who receive a final grade lower than "C or 71" in any of the Opticianry courses must obtain permission from the program director to continue the major in Opticianry.**

## GRADE REQUIREMENTS

The following standards will be used in the Opticianry Program:

- 100 - 91 = A
- 90 - 81 = B
- 80 - 71 = C
- 70 - 61 = D <sup>1</sup>
- Below 61 = F <sup>1</sup>

<sup>1</sup> A D or F in any opticianry courses requires the course to be repeated.

## STEPS TO FOLLOW FOR ACCEPTANCE INTO THE APPRENTICE CSC PROGRAM

**\*\*Before you can begin, you must be registered with the DOLI Apprenticeship office.**

- 1. Complete the Reynolds Community College online application** form. (There is no fee for applying) The “Apply NOW!” link is on our website: [www.reynolds.edu](http://www.reynolds.edu)
- 2. Send transcripts** from high school and any prior colleges attended to Reynolds Registrar’s office.
- 3. Apply for any Financial Aid (if needed).** You can apply for Aid on the college website also. Aid applications usually take at least 2 months to process. It is **very important** to get it done immediately if you are dependent upon the results for enrollment.
- 4. Have an interview with the Program Head/Faculty Advisor.** Interviews can be arranged by contacting Ms. Pelkey directly via email or phone.

## OPTICIAN APPRENTICE CAREER STUDIES CERTIFICATE CURRICULUM

**Occupational Objectives:** Students who successfully complete this career studies certificate program and complete the 4000 hours of on-the-job training, as a registered apprentice will be eligible to sit for the licensure examination to become a licensed optician in the State of Virginia. Individuals seeking apprenticeship must register independently with the Department of Labor as an apprentice optician. The college does not do this on your behalf.

To seek further details contact the Virginia Department of Labor Apprenticeship Training at <https://www.doli.virginia.gov/apprentices/>

**Program Notes:** In addition to the general college curricular admission requirements, an interview with the Opticianry program head is required before beginning the curriculum. Students must be registered as an Apprentice Optician with the Virginia Department of Labor. This career studies certificate program may be completed in one, two or three years. The student can set the pace. All courses from the career studies certificate are transferable into the degree program.

## OPTICIAN APPRENTICE CAREER STUDIES CERTIFICATE CURRICULUM

Course Prefix	Course Number	Course Title	LEC. HRS.	LAB. HRS.	CRS. CRE.
<u>Fall Semester</u>					
OPT	121	Optical Theory I	3	0	3
OPT	150	Optical Laboratory Theory I	3	0	3
<u>Spring Semester</u>					
OPT	122	Optical Theory II	3	0	3
OPT	151	Optical Laboratory Theory II	3	0	3
<u>Summer Semester</u>					
OPT	160	Optical Dispensing Theory I	3	0	3
OPT	165	Optical Dispensing Clinical I	0	4	2
<u>May be taken any semester</u>					
OPT	105	Anatomy, Physiology, and Path of Eye	3	0	3
Total			18	4	20

*\*\*Please Note: Reynolds has no control over the required hours of on-the-job training. Your on-the-job training can, however, be used for credit by able for OPT 165 once it has been completed.*

## ADA COMPLIANCE AND STUDENT ACCOMMODATIONS

The Office of Student Accommodations assists students with documented disabilities gain access to College programs, services, and activities our goal is to identify needs and implement services in accordance with the guidelines established by the Vocational Rehabilitation Act of 1973 and The Americans with Disabilities Act of 1990. Students who wish to request accommodations should contact the Office of Student Accommodations [OSA] on the Downtown or Parham Road Campus to schedule an appointment. Service for the Western Campus is coordinated through the Parham Road Office. Please visit [https://www.reynolds.edu/student\\_services/student-accommodations/index.html](https://www.reynolds.edu/student_services/student-accommodations/index.html) or call (804)523-5628 for more information or to seek assistance.

## COUNSELING POLICY

The Opticianry Program uses the counseling policy as stated in the current college catalog. <https://catalog.reynolds.edu/>. You may also contact the Office of Student Affairs at 804-523-5005, or email [studentsupport@reynolds.edu](mailto:studentsupport@reynolds.edu)

## COLLEGE AND OPTICIANRY POLICIES

This Opticianry Student Handbook along with the Reynolds College Catalog and the Reynolds Student Handbook will provide you with valuable information concerning academic procedures, guidelines and requirements of a Reynolds Community College student.

Each student is given a copy of the catalog and these two handbooks, or they can be accessed via the college website. The student is expected to be familiar with the contents of each book and to consult with these publications when questions arise.

Current College catalog:

[https://catalog.reynolds.edu/preview\\_program.php?catoid=6&poid=1045&returnto=491](https://catalog.reynolds.edu/preview_program.php?catoid=6&poid=1045&returnto=491)

Current Reynolds Student Handbook:

<https://catalog.reynolds.edu/content.php?catoid=6&navoid=492>

To be a successful optician, one must not only be able to fit and adjust glasses, contact lenses, low vision aids but also communicate effectively with the public, doctors, management, wholesalers, and other businesses. You must also be prepared for marketing, salesmanship and management. The varied courses in the degree curriculum address these needs and provide a foundation for success in all these areas.

The program director is also assigned as your faculty advisor to guide you, but **the ultimate responsibility for registering in the proper courses is yours**. Your advisor will provide you with a program plan to follow. This plan is to be used as a check sheet to ensure that you have met all the program course requirements.

We hope that your college experience will be pleasant as well as beneficial. The faculty wishes you much success in your academic pursuit of an associate degree or apprentice certificate in Opticianry.

If you need assistance of any kind, do not hesitate to ask one of the Opticianry faculty members.

## INSTRUCTIONAL DELIVERY METHODS

The Opticianry program presents lessons within courses using print-based materials, computer assisted lectures, guest lectures, conventional lecture, internet, video and audio. Students are assigned activities which will require the student to read textbooks, read trade journals, locate, read and download internet materials. Students will be required to provide written and oral answers to assignments and in-class activities. Some of these activities will be individual or group participation projects.

## CLINICAL RESPONSIBILITIES

During their second-year students will fit actual patients with eyewear and contact lenses in the REYNOLDS Optical Clinics. Distance education students will be required to have an approved clinical site and preceptor to perform these courses.

The clinical course learning experiences are a required part of the program. In addition, during the dispensing clinical II & III courses, off campus clinical rotations may take place. During this time the student may be responsible for working at an outside clinical site that is assigned by the instructor. Students must take this into consideration and prepare for any schedule conflicts in advance.

The REYNOLDS Optical clinics are conducted and operated in the same manner that an independent provider would function. Each student is expected to dress and act in a professional manner. Both clinics are non-profit organizations and services are available to staff, faculty and students at the College. Clinic rules and regulations will be given to each student and discussed in detail the first clinical class meeting.

The Optical Clinic will be open for regular hours that will be posted every fall and spring semesters and are located on the 5<sup>th</sup> floor of the Downtown Campus.

**All measurements, fittings and adjustments of eyewear and contact lenses must be checked by the instructor or supervising optician. It is illegal to dispense prescription eyewear or contact lenses in the Commonwealth of Virginia without a license. It is illegal to fit contact lenses in the Commonwealth of Virginia without being contact lens endorsed.**

**Financial Requirements for on-campus dispensing and contact lens clinics:** In addition to the regular college tuition and fees, the Opticianry program requires:

Current eye examination (must be done before taking OPT 273)	\$40-100
Personal pair of safety glasses & ear protection (Non-Rx safety eyewear is made available for on-campus labs)	\$15-80
White laboratory coat (based on clinical setting requirement)	\$20-45
Student Name badge	\$10-15
Headset with microphone (for all online course sections)	\$25-75
Mailing costs (for distance clinical courses only)	\$ varies by location*
Testing center fees (for distance clinical courses only)	\$ varies by location*

Note: The above costs are approximate, clinical site dependent, and subject to change.

\*Distance learning students are required to take proctored exams and complete projects to be sent back to the college throughout the curriculum. Each student must have an approved proctor and, if there is a fee, the student is required to pay for the services they decide to use.

## **EQUIPMENT AND TOOLS REQUIRED FOR LAB AND CLINICAL COURSES**

Students enrolled in campus based clinical sections will have access to all program resources, including the required items listed below. Students who choose to enroll in distance clinical courses and use an approved clinical site off campus must have access to the following environments for each course:

OPT 152 & OPT 153 – A finishing laboratory which includes the following equipment at minimum:

- Lens edger
- Hand Stone / Hand Edger
- Groover
- Polisher
- Tinting Unit
- Manual Lensometer
- Frame Warmer

OPT 165, 271 & 272 – An optical dispensary which includes the following equipment at minimum:

- Dispensing tables
- Frame & Lens displays
- Pupilometer
- Spectacle ordering system
- Frame Warmer
- Lensometer

OPT 273, 274 & 280 – A contact lens examination area which includes the following equipment at minimum:

- Slit Lamp
- Keratometer
- Trial lens set or Phoropter
- Visual Acuity tests
- Soft and GP Trial Contact lenses
- Radiuscope

All students need to have access to the following additional tools to successfully complete their clinical competencies. If a clinical site does not have an item that you will need for class, it is the student's responsibility to obtain it. Students may purchase any items through any given supplier; however Reynolds Opticianry program has a discount program for students through OptiSource that offers up to 40% off most items you may need.

When beginning at a clinical site – please check to ensure you have what you may need with your preceptor or instructor. If you are missing any required items, you may order them through OptiSource or see if there is another optical location that may be willing to allow you to borrow what you need. However, many students like to take advantage of the student discount and purchase a tool kit for themselves and that they can use throughout their career.

<b>Tool or Instrument Description</b>	<b>OPT Course it will be required in</b>
Lens Clock & Thickness Caliper	152,153,271,272
Narrow Double Nylon Plier	152, 153, 165, 271, 272
Wide jaw Angling Plier	152, 153, 165, 271, 272
Nylon Gripping Plier	152, 153, 165, 271, 272
Flat Chain Nose Plier	152, 153, 165, 271, 272
Round Metal/Flat Nylon Plier	152, 153, 165, 271, 272
Cutting Plier	152, 153, 165, 271, 272
Lens Sizing Plier	152, 153
Nose Pad Adjusting Plier	152, 153, 165, 271, 272
Lens Axis Aligning Plier	152, 153, 165, 271, 272
Compression Sleeve Assembly Plier	153,271, 272
Flat and Philips head Screwdrivers	152, 153, 165, 271, 272
PD Ruler	152, 153, 165, 271, 272
Circumference Gauge	153, 165
Lens marking Pens for AR coatings	152, 153, 165, 271, 272
Compression Sleeve trimming Pliers	153, 271, 272
Eyewire Shaping Plier	152, 153
Rx Aligner	153, 165, 271, 272
PAL Fitting Tool	165, 271, 272

## HOMEWORK POLICY

A college education is gained from a combination of attending lectures and/or labs, completing formal assignments, and doing additional homework outside of scheduled class times. The amount of assigned homework will vary depending on the instructor and the course content. Although there is no official required work schedule for homework, a good rule-of-thumb is to plan for two-three hours of homework for every one hour of class time. When an instructor does not give assignments to fill this time during a given week, you are expected to do work independently to review the content and prepare for the next class or assignment.

To help you be successful, Reynolds offers several support services. We have an excellent library, academic support center and multiple stations to access the internet. You are encouraged to take advantage of the services that are available at the college.

Unless otherwise stated in the course syllabus, the Opticianry department late assignment policy is as follows:

Homework assigned in any Opticianry classes should be turned in by the given due dates. Ten points will be deducted from the total score for that assignment for each day it is late up to 30 points. After 3 days, the assignment will not be accepted and a grade of zero will be given for that assignment. No more than 3 assignments may be submitted late in a given class.

## ATTENDANCE POLICY

Class attendance is considered essential to academic success in this program. Since there are constant learning opportunities between faculty and students, between students and other students, and between students and patients in the clinics. It is expected that you will attend each meeting of each course in which you are enrolled. It is understood that sometimes situations occur that are unavoidable and may cause you to miss class. Personal or family problems, automobile breakdowns, and illnesses happen to the best of us - students and faculty alike.

When you miss a class, you are responsible for learning the material that was covered before attending the next class or lab. It is recommended to create a network with your fellow classmates in case you miss a class. Contacting the instructor via email is an option, however, if they are unable to reply before the next class meeting it is still your responsibility to find out what material you missed.

If a quiz or test is missed, it is up to the instructor whether a make-up will be administered. Individual course policies for making up for assignments, papers, quizzes, or tests that are missed will be explained by each instructor the first time each class meets. The policy will also be included in the course syllabus or outline given to each student at the first class meeting.

## SAFETY PROCEDURES

The laboratory instructor will review the specific rules that are applicable to the laboratory. In general, students are allowed to operate machinery, use equipment or tools when they have been instructed in the proper use of that equipment. Students are not allowed to use equipment, machinery or tools unless they have received operation and safety instruction for the equipment. No equipment, machinery or tools will be used without an instructor in the laboratory.

There are strict rules in force for the safety of students and faculty in the laboratory and clinics. The optical shop and contact lens areas contain equipment and materials which could be harmful and cause serious injury to an individual or to the class. It is the responsibility of each and every student to be aware of the dangers in the lab & clinic area and act in a safe and appropriate manner.

Safety Data Sheets (SDS) are available in each lab for solutions encountered. It will be necessary to acquaint yourself with these data sheets. **Students are required to wear safety eyewear while operating any equipment and ear plugs as needed.**

In all classes, labs, and clinics, students should inform the instructor of any accidents, no matter how minor they may seem at the time. Campus security should be notified immediately of any accident.

## INFECTIOUS DISEASE POLICY

As a student performing in the clinical/practicum facilities, you must understand that you may be exposed to environmental hazards and infectious diseases including, but not limited to tuberculosis, hepatitis B and HIV (AIDS). Reynolds Community College recommends that all students entering programs in the School of Health Sciences obtain the Hepatitis B vaccine prior to entering the clinical experience portion of the program.

## EMERGENCY PREPAREDNESS STATEMENT

In the event of a college-wide emergency, course requirements, classes, deadlines, and grading schemes are subject to changes that may include alternative delivery methods, alternative methods of interaction with the instructor, class materials, and/or classmates, a revised attendance policy, and a revised semester calendar and/or grading scheme.

In the case of a college-wide emergency, please refer to the following about changes in this course:

- Canvas Course webpage: [www.reynolds.edu](http://www.reynolds.edu)
- Instructor's email from Syllabus or Canvas

For more general information about the emergency situation, please refer to:

- College website: [www.reynolds.edu](http://www.reynolds.edu)
- College Telephone number: (804) 371-3000
- To register for emergency text messaging, email, or voice mail go to <https://alert.reynolds.edu/index.php?CCheck=1>

## GRADUATION INFORMATION

### Instructions:

1. Determine a plan for completion of your curriculum and **have it approved** by the Program head. As you complete a semester, check off the courses you have completed on the program plan provided by the program director.
2. If sending transcripts from other colleges, do that as soon as possible. Transcripts can take 3-4 weeks to be processed. You can check to see if they have been entered by checking your unofficial transcript in the Student Information System. If you should have courses transferring and they do not appear in SIS contact the records office at 804-523-5029.
3. In the 1<sup>ST</sup> week of the semester before you wish to graduate, print your unofficial transcript from the student information system. Bring it and your curriculum plan to the program director for final review and approval to ensure you have properly prepared to complete all your requirements.

## COLLEGE GRADUATION REQUIREMENTS

### **The student must:**

1. Complete the total credit hours required in the respective program in which they are candidates for the degree or certificate.
2. Apply for graduation with the Registrar Office by the published deadlines.
3. Satisfactorily fulfill all obligations, financial and otherwise, to the College.
4. Achieve a minimum cumulative GPA of 2.00.

## **VIRGINIA STATE LICENSING INFORMATION**

If you wish to graduate and take your state board exam on time it is vital that you make sure you are aware of the application deadlines! It is the student's responsibility to make sure they submit their applications on time. The program head will try to inform students of upcoming dates but it is not his/her responsibility to do so.

**VA State Board Exam** applications & deadline dates can be received from:

Board for Hearing Aid Specialists and Opticians  
Department of Professional and Occupational Regulation  
9960 Mayland Drive, Suite 400  
Richmond, VA 23233  
804-367-8509  
<http://www.dpor.virginia.gov/Boards/HAS-Opticians/>

The VA state Contact Lens Endorsement is a separate application that you will need to request.

In the 1<sup>st</sup> week of your last semester, make sure you find out the dates that your application(s) for the state boards are due.

## **OPTICIANRY ORGANIZATION & BOARD CONTACT INFORMATION**

COMMISSION ON OPTICIANRY ACCREDITATION

229 East 85th Street #194  
New York, NY 10028  
<https://coaccreditation.com/>

Board for Hearing Aid Specialists and Opticians  
Department of Professional and Occupational Regulation  
9960 Mayland Drive, Suite 400  
Richmond, VA 23233  
804-367-8509  
<http://www.dpor.virginia.gov/Boards/HAS-Opticians/>

## **COLLEGE GRIEVANCE POLICY**

Reynolds Community College is dedicated to an affirmative action policy that provides that all matters relating to present and prospective students will be handled fairly and equally without regard to race, color, sex, age, political affiliation, religion, disability, national origin, or other non-merit factors.

Students may file academic or non-academic grievances within the policy. The grievance policy can be found in its entirety in the college student handbook.

## **STUDENT LEARNING OUTCOMES**

The learning outcomes for a graduate of the Opticianry Degree Program should include but are not limited to the following:

1. Define the scope of practice of opticians, optometrists, ophthalmologist and other eyecare professionals.
2. Explain the history of lenses, eyeglasses and Opticianry.
3. Describe how lens materials are manufactured.
4. Explain the theories of light and the electromagnetic spectrum.
5. Analyze the ophthalmic prescription.
6. Explain the application and use of the lens cross and flat transposition.
7. Describe the refractive errors and their correction.
8. Explain the process of measuring visual acuity.
9. Identify the use and parts of the lensometer.
10. Determine the power of the cylinder away from the axis.
11. Explain prism and how it affects the patient.
12. Explain Snell's Law and the index of refraction.
13. Explain and demonstrate the steps of the ophthalmic finishing process.
14. Explain and demonstrate the uses of the lensometer.
15. Explain basic record keeping procedures.
16. Identify frame adjustment tools.
17. Describe techniques of hardening glass lenses, and policies of FDA and ANSI regarding testing of impact resistance.
18. Explain proper laboratory and workshop safety procedures.
19. Explain proper handling and techniques for proper environmental handling of optical substances and waste products.
20. Describe the specialized application of aphakic lenses.
21. Define and explain presbyopia and the different lens forms used for correction.
22. Demonstrate skills in prescription interpretation and analysis.
23. Apply ANSI standards to ophthalmic eyewear.
24. Describe the procedures used in surfacing lenses.
25. Explain the applications of specialty lenses.
26. Demonstrate an understanding of lifestyle dispensing.
27. Demonstrate clinical dispensing skills.
28. Understand clinical management skills.
29. Explain effective communication skills both verbal and written within the optical industry.
30. Understand basic optical management procedures.
31. Describe the use of absorptive lenses.
32. Understand proper base curve selection.
33. Calculate lens edge and center thickness.
34. Define and describe the parts, styles and materials of current spectacle frames.
35. Explain the boxing and datum systems of measuring frames and how to interpret frame

markings.

36. Execute accurate monocular and binocular interpupillary measurements.
37. Describe the six major types of lens aberrations and how they affect vision.
38. Analyze the special needs of the high myope and high hyperope to include lenses and frames and etc.
39. Explain properties of visible and invisible light.
40. Calculate and correct vertical prism at the reading level.
41. Explain and demonstrate basic bench alignment.
42. Describe and demonstrate basic frame adjustments.
43. Demonstrate how to take accurate bifocal, trifocal and progressive height measurements.
44. Demonstrate the skills of ordering and processing prescription eyewear.
45. Understand ethical professional conduct for opticians.
46. Understand the lens coating processes.
47. Understand the use of current technology at work in the ophthalmic field.
48. Understand the need for basic equipment maintenance and repair.
49. Demonstrate frame repairs.
50. Demonstrate a basic understanding of the history and development of contact lenses.
51. Describe the nomenclature of contact lenses.
52. Understand the theory behind the corneal/lens relationship.
53. Understand the physiological parameters for fitting contact lenses.
54. Demonstrate proper insertion and removal of contact lenses.
55. Understand basic contact lens fitting problems and their solutions.
56. Operate the instruments necessary for contact lens verification and fitting.
57. Demonstrate the proper care and handling of contact lenses
58. Explain how to modify and rigid contact lenses.
59. Understand the human optical system and ocular anatomy
60. Demonstrate product knowledge and understanding of the diverse uses of optical products.
61. Demonstrate basic knowledge and understanding of refractometry

## OPTICIANRY COURSE DESCRIPTIONS

### **OPT 121 Optical Theory I (3 credits)**

Introduces theory and application of ophthalmic lenses. Presents history, basic manufacturing and quality standards of ophthalmic lenses, propagation of light, refraction and dioptric measurements, true power, surface power, nominal lens formula. Explains lens makers' equation, boxing system, spherical lens design, fundamental aspects of cylindrical lenses, sphero-cylinder lens design, and flat and toric transposition. Lecture 3 hours per week.

### **OPT 122 Optical Theory II (3 credits)**

Explores the development of multifocal lenses, application of multifocal lenses, survey of current ophthalmic lens, the properties of spherocylinder lenses, and an in-depth analysis of the optics of ophthalmic prisms. Prerequisite: OPT 121. Lecture 3 hours per week

**OPT 150 Optical Laboratory Theory I (3 credits)**

Introduces the student to the terminology, instruments, lens, frames, and materials used in the surfacing and finishing of optical prescription eyewear. Presents personal and environmental safety issues. Corequisite: OPT 152. Lecture 3 hours per week.

**OPT 151 Optical Laboratory Theory (3 credits)**

Covers making eyeglasses with advanced prescriptions and frames. Includes verification and neutralization techniques for single vision lens and bifocals, frame repair, accomplishing prescribed prism by decentration, verification and neutralization, semi-rimless glasses, and multifocal glasses. Prerequisites: OPT 150 and OPT 152 or equivalent. Corequisite: OPT 153. Lecture 3 hours per week.

**OPT 152 Optical Laboratory Clinical I (3 credits)**

Provides the clinical component of Optical Laboratory Theory I. Provides students the opportunity to learn clinical skills in fundamental optical laboratory tasks at the entry level under the direction and supervision of a preceptor. Emphasizes accuracy and attaining skills that meet acceptable professional standards. Corequisite: OPT 150. Laboratory 6 hours per week.

**OPT 153 Optical Laboratory Clinical II (3 credits)**

Provides the clinical component of Optical Laboratory Theory II. Presents students with an opportunity to learn clinical skills for optical laboratory tasks at the advanced level under the direction and supervision of a preceptor. Emphasizes accuracy and the attainment of skills that meet acceptable professional standards. Prerequisites: OPT 150 and OPT 152 or equivalent. Corequisite: OPT 151. Laboratory 6 hours per week.

**OPT 154 Optical Business Management (3 credits)**

Covers basic management and leadership skills necessary for a successful eye care office. Teaches the analysis, creative thinking, judgment, planning strategy, and implementation skills necessary for today's optical business challenges. Lecture 3 hours per week. (*Online Course*)

**OPT 160 Optical Dispensing Theory I (3 credits)**

Introduces the student to the skills necessary for becoming a dispensing optician. Includes the history of the profession, patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis, and adjustment techniques. Prerequisite: OPT 121 or equivalent. Corequisite: OPT 165. Lecture 3 hours per week.

**OPT 165 Optical Dispensing Clinical I (2 credits)**

Provides the student with an opportunity to develop the skills necessary for becoming a dispensing optician. Covers patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis, and adjustment techniques. Serves as the clinical component of Optical Dispensing Theory I. Prerequisite: OPT 121 or equivalent. Co-requisite: OPT 160. Laboratory 4 hours per week.

**OPT 260 Optical Dispensing Theory II (3 credits)**

Focuses on the development and refinement of the skills necessary for students to become a licensed dispensing optician, including patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis, and adjustment techniques. Prerequisites: OPT 160 and OPT 165 or equivalent. Corequisite: OPT 271. Lecture 3 hours per week.

**OPT 271 Optical Dispensing Clinical II (3 credits)**

Focuses on the development and refinement of the skills necessary for students to become a licensed dispensing optician, including patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis, and adjustment techniques. Serves as the clinical component of Optical Dispensing Theory II. Prerequisites: OPT 160 and OPT 165 or equivalent. Corequisite: OPT 260. Laboratory 12 hours per week.

**OPT 272 Optical Dispensing Clinical III (3 credits)**

Focuses on the development and refinement of the skills necessary for students to become a licensed dispensing optician, including patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis, and adjustment techniques. Prerequisites: OPT 260 and OPT 271 or equivalent. Laboratory 12 hours per week.

**OPT 273 Contact Lens I (3 credits)**

Introduces basic concepts and techniques of contact lens fitting, contact lens design, contact lens materials, and contact lens nomenclature. Covers contact lens insertion and removal techniques, and basic slit lamp and keratometry skills. Prerequisites: OPT 105 or equivalent. Lecture 2 hours per week and Laboratory 2 hours per week.

**OPT 274 Contact Lens II (4 credits)**

Explores soft spherical and gas permeable contact lens fitting philosophies, tolerances, and designs. Develops the student's patient evaluation skills, patient training skills, and skills for evaluating the fit and verification of contact lenses. Prerequisite: OPT 273 or equivalent. Lecture 3 hours per week and Laboratory 2 hours per week.

**OPT 280 Contact Lens III (4 credits)**

Promotes the development of clinical skills in fundamental contact lens tasks at the entry level under the direction and supervision of a preceptor. Emphasizes professional standards. Prerequisite: OPT 274 or equivalent. Lecture 2 hours per week and Laboratory 4 hours per week.

**OPT 105 Anatomy, Physiology, and Pathology of the Eye (3 credits)**

This course will include fundamentals of various body systems and principles of human physiology, methods of drug delivery including the advantages and disadvantages of drops, ointments, sustained release systems, systemic use of medications, basic characteristics of common external and internal diseases of the eye, and ocular emergencies. Lecture 3 hours per week.

## Appendix 1



### Reynolds Opticianry Distance Learning Course Guidelines

#### Lecture courses:

- A minimum of 1 mandatory virtual meeting will be held every 1 to 2 weeks **(preferably there will be a meeting every week)**. Faculty will wait a maximum of 15 minutes for students to sign in, otherwise the meeting will be cancelled.
- Assignments will be graded and returned to the student **within 5 business days** of the posted submission due date.
- Unless there are mitigating circumstances, changes made to the class schedule will be announced **at least 1 week in advance**.
- All student questions pertaining to the course or assignments should be sent to the faculty through the Class Discussion forum on the course canvas page. Students should only email instructors if the subject is a private matter. **Texting an instructor is prohibited**.
- Faculty will reply to student discussion inquiries and emails **within a 48 hour period**.
- **Virtual meetings are mandatory** for an attendance grade unless otherwise stated in the course syllabus. Attendance policies for each course will be covered by the instructor during the orientation or first meeting.
- Students are responsible for coordinating proctored exam sites at approved sites per college policy.

#### Clinical Courses:

- Faculty will assess all major competencies in person or by live video streaming.
- Instructors will communicate with the clinical site preceptors a minimum of 3 times during the semester, more often as needed to provide assistance and feedback.
- Students must submit a copy of their photo ID for any video submission assignment to be accepted.
- **Weekly clinical discussion postings** will be submitted on Canvas and the instructor will provide feedback to student postings regularly.
- **Weekly reports** are required to be scanned, faxed to the instructor or uploaded on the course canvas page and must be signed by the preceptor.
- Students living **within a 3 hour radius** of the college must come to campus for major assessments. Students who are **outside the 3 hour radius** will have assessments proctored by the faculty member via live video streaming (Skype, Zoom, Google plus, etc..) and must have the ability to connect to the internet reliably while at their clinical site.
- OPT 152, 153 will have a proctored mid-semester project and a practical final exam.
- OPT 165 will have proctored midterm and final practical exams.
- OPT 271 and 272 will have proctored final practical exams.
- OPT 273, 274 and 280 will have a proctored final practical exam.

**Any questions regarding these policies may be directed to the program director, Yvonne Pelkey.**

## Appendix 2



### Testing Instructions For Opticianry Courses

**Please read over these procedures very carefully and contact your faculty if you have any questions.**

Most all written tests/exams are held online through Canvas. All students are expected to adhere to the Academic Honesty policy. This means that the use of textbooks, notes, or help from another person is not permitted unless specific instructions have been given by the faculty of the course. Any student found to be guilty of academic dishonesty will receive a zero on the assignment and will be reported to the Office of Student Affairs.

#### **Procedures for Written Final Exams**

- The Final Exam must be proctored using an approved online modality or site during the time set forth by the faculty and posted on the course webpage.
- It is the student's responsibility to provide the faculty with their proctor information and submit the "Proctor Request Form" to the faculty by the specified deadlines.
- Failure to make any required deadlines may result in an inability to take the final exam and the student will be given a zero for the exam.
- Students taking multiple classes must provide Proctor Information for each class regardless if it is the same faculty. This information must include: the testing site name and location, proctor name, phone number, and email address. A forum may also be set up on Discussion Board for this pertinent information.
- Only students taking the exam at a **NON-Reynolds testing site** must complete and send the Proctor Request Form to the faculty as indicated.
- Students taking the exam at a **Reynolds testing center** must use the "testing ticket" given by the faculty and posted on the course webpage.
- It is the student's responsibility to make arrangements well in advance and be familiar with the policies and hours of operation for the testing site location they choose.
- The exam will be conducted online (therefore your site needs to have internet access) and is password protected. A password will be provided upon proof of identity when you arrive at the testing location.
- **ONLY** In the event Canvas is down due to server issues, a hard copy of the exam will be provided for you to complete.

### **Procedures for Practical Exams**

- OPT 152, 153, 165, 271, 272, 273, 274 and 280 require the completion of a practical exam.
- Students who reside within a 3 hour radius of Richmond, Virginia will be required to travel to campus for major assessments and/or examinations.
- Students outside a 3 hour radius of the college must make arrangements with the faculty to schedule a live video streaming session and the faculty member will proctor the exam.
- Proctors for dispensing, contact lens and laboratory clinical sites cannot be the student's preceptor for the class or any individual who works directly with the student on a daily basis (ie: store manager, fellow employee, etc).
- For distance proctoring the practical exam pack will be mailed directly to the preceptor or a third party at least 2 weeks prior to the scheduled exam date.
- NOTE: the exam pack must be received back at the college by the posted deadline. This means it must be mailed/shipped with significant prior notice to arrive on time. Please be mindful of any holidays or weekends in which mailing/shipments are not received.

### **Policy Regarding College Emergencies**

Students shall be expected to take course-related tests at their regularly scheduled times and in the format and manner specified by the faculty. No exceptions shall be made without college approved accommodations and the permission of the faculty member for that course. If the student fails to appear for a test, it shall be the student's responsibility to contact the faculty member and make arrangements for a make-up test, at the discretion of the faculty member. In the event the college closes due to inclement weather or other college emergency, make-up tests will be extended by the number of days the college is closed.

## Appendix 3

### REYNOLDS LEARNING RESOURCE CENTER

In line with the mission to provide an environment where students and faculty can meet their learning and teaching needs, Reynolds Library provides students and faculty access to adequate learning and information resources and services to support the associate degree, certificate, and career studies certificate programs that the college offers.

Students attending classes at any location or via distance education have full access to all library materials. The libraries on the Downtown and Parham Road Campuses are open Monday through Saturday for 66 hours per week during each semester. The Goochland Campus library is open Monday through Friday for 54 hours per week. For library hours, check <http://library.reynolds.edu/services/calendar.html>. This allows users access to circulation, reference, periodicals, videos, and computers resources on-site. In addition, users can search the collection through the online library catalog or access millions of articles, ebooks or videos through over 150 online databases. This is especially useful for students enrolled in distance education classes, giving them access to the same materials as students who are on campus. The complete list of electronic databases currently available to students and faculty can be found from library's web page at <http://libguides.reynolds.edu/adatabases>.

In addition, the Reynolds library is a member of the [Virtual Library of Virginia \(VIVA\)](#) consortium, composed of the libraries of the 39 state-supported colleges and universities within Virginia and 32 private institutions that have been permitted to join the consortium. VIVA's mission is to provide, in an equitable, cooperative, and cost-effective manner, enhanced access to library and information resources for the Commonwealth of Virginia's academic libraries. Through VIVA, colleges are able to improve faculty and staff productivity, enhance learning, avoid duplications of collections, and better utilize technology. Through enhanced support of interlibrary loan services, improved sharing of Virginia's exceptional print and microfilm collections is achieved. Shared access to online library resources improves coordinated collection development. [VIVA's Memorandum of Understanding](#) details the agreement among the member libraries.

The Virginia Community College System (VCCS) also utilizes group purchasing power to contract for several databases and services. Each year, Reynolds Library, along with the other 22 colleges in the VCCS, pays an apportioned amount based on each college's enrollment toward the group purchase of [VCCS databases](#).

All VIVA, VCCS and Reynolds Library Databases are remotely accessible to all faculty members and currently enrolled students who have Internet access from home computers or from local school or public libraries as described in [Off-campus Access to Reynolds' Databases](#).

Reynolds Library has also participated in VIVA's [Cooperative Borrowing Program](#) which allows current Reynolds students, faculty, and staff to borrow library materials directly from [participating academic libraries](#) such as the University of Virginia, University of Richmond, Virginia Commonwealth University, etc.

Through interlibrary loan agreements, students and faculty also have access to the physical materials from other libraries in the country. An [online interlibrary loan request form](#) makes such opportunities easily accessible to all students and faculty.

A summary of the [library's circulation policies](#), including a description of the interlibrary loan agreements and procedures, can be found on the library's web site.

The library staff maintains a collection of print and online library resources that meet the teaching and learning needs of the college's students and faculty and that support the range of academic programs offered by the college. The staff continually reviews its collections and connections to online resources. Program heads and individual teaching faculty are encouraged to recommend new library resources and an [online form for recommending the purchase of new resources](#) is available on the library's web site. The [policy and procedures for collection development](#) are published and made available to all faculty at [http://inside.reynolds.edu/inside\\_lrc/CollectionDevelopmentPolicy.doc](http://inside.reynolds.edu/inside_lrc/CollectionDevelopmentPolicy.doc).

## REYNOLDS LEARNING RESOURCE CENTER HOLDINGS

Call No		Status	Title
RE36.H56 A3 1993		Normal	Second sight /
RE46 .A44 2006		Normal	All about your eyes /
RE46 .D82	V. 2	Normal	System of ophthalmology.
RE46 .D82	V. 4	Normal	System of ophthalmology.
RE46 .D82	V. 5	Normal	System of ophthalmology.
RE46 .N4 1991		Normal	Medical sciences for the ophthalmic assistant /
RE46 .N57 1992		Normal	Ophthalmology, principles and concepts /
RE46 .O62 1987	V. 1	Normal	Ophthalmic technology :
RE46 .O62 1987	V. 2	Normal	Ophthalmic technology :
RE46 .O62 1987	V. 3	Normal	Ophthalmic technology :
RE46 .O62 1987	V. 4	Normal	Ophthalmic technology :
RE46 .V4 2004		Normal	Vaughan & Asbury's general ophthalmology /
RE48 .C56 1987		Normal	Clinical light damage to the eye /
RE48 .H34 1999		Normal	Emergencies in eyecare /
RE48 .H87 1985		Normal	Computer eye-stress :
RE48 .O67 1986		Normal	Optical radiation and visual health /
RE48 .W43 2004		Normal	Manual of eye emergencies :
RE48.2.A5 R67 2007		Normal	Rosenbloom & Morgan's vision and aging /
RE48.2.A5 V57 1986		Normal	Vision and aging :
RE48.2.C5 E93 1983		Normal	The Eye in childhood /
RE48.2.C5 H37 2004		Normal	Paediatric optometry /

RE48.2.C5 L413 1999		Normal	Assessing children's vision :
RE48.2.C5 M66 1997		Normal	Eye care for infants and young children /
RE48.2.C5 S34 2006		Normal	Optometric management of learning-related vision problems /
RE48.2.C5 T39 1997		Normal	Practical paediatric ophthalmology /
RE48.9 .M36 2008		Normal	Manual of ocular diagnosis and therapy /
RE48.9 .N676 2010		Normal	Ophthalmic diseases and therapeutics /
RE48.9 .W54 1994		Normal	The Wills eye manual :
RE51 .C34 1998		Normal	The eye book :
RE51 .C34 1998		Normal	The eye book :
RE51 .K58 2007		Normal	Fact and fiction of healthy vision :
RE51 .L585 2002		Normal	Living with vision problems :
RE51 .Z56 1996		Normal	Complete guide to eyecare, eyeglasses & contact lenses /
RE51 .Z56 1996		Normal	Complete guide to eyecare, eyeglasses & contact lenses /
RE56 .G56 1993		Normal	Ophthalmology made ridiculously simple /
RE67 .A32 1992		Normal	Adler's physiology of the eye :
RE71 .A25 1974		Normal	Color atlas of anterior segment eye diseases /
RE72.5 .D83 1998		Normal	Basic procedures /
RE72.5 .D83 2006		Normal	Clinical skills for the ophthalmic examination :
RE72.5 .L427 2012		Normal	Certified ophthalmic assistant exam review manual /
RE73 .H45 1999		Normal	Instrumentation for eyecare paraprofessionals /
RE75 .B87 1997		Normal	Laboratory and radiologic tests for primary eye care /
RE75 .C474 2004		Normal	Clinical procedures for ocular examination /
RE75 .K35 2006		Normal	Clinical diagnosis in ophthalmology /
RE79.B5 G6 1984		Normal	Biomicroscopy for contact lens practice :
RE79.P4 H45 1993		Normal	Visual fields /
RE85 .S53 2010		Normal	Overcoming complications of LASIK and other eye surgeries /
RE88 .S76 2010		Normal	Ophthalmic nursing /
RE91 .B75 2007		Normal	The low vision handbook for eyecare professionals /
RE91 .D48 1998		Normal	Low vision :
RE91 .F597		Normal	Management of low vision /
RE91 .F67 1991		Normal	The art and practice of low vision /
RE92 .C58 1991		Normal	Amblyopia :
RE216.D78 M37 2007		Normal	Reversing dry eye syndrome :
RE216.D78 P37 2003		Normal	The dry eye :
RE334 .B7 2003		Normal	Anterior eye disease and therapeutics A-Z /
RE336 .A76 1998		Normal	Beyond glasses! :

RE336 .A93 2007		Normal	Refractive surgery /
RE336 .B75 2000		Normal	The laser vision breakthrough :
RE336 .E38 1999		Normal	How to see like a hawk when you're blind as a bat :
RE336 .K67 2001		Normal	Lasik :
RE336 .K67 2006		Normal	LASIK :
RE339 .Z33 1999		Normal	Diagnosis, contact lens prescribing, and care of the keratoconus patient /
RE451 .D88 1999		Normal	Cataract and glaucoma for eyecare paraprofessionals /
RE551 .J64 1995		Normal	Retina, vitreous, and choroid :
RE551 .P73 1998		Normal	Practical atlas of retinal disease and therapy /
RE551 .R486 2006		Normal	Retinal imaging /
RE661.D3 D36 2000		Normal	Macular degeneration :
RE661.D3 D36 2000		Normal	Macular degeneration :
RE661.D3 S26 2008		Normal	Macular degeneration :
RE661.D3 W37 1998		Normal	Macular degeneration :
RE661.D5 A7 1992		Normal	Diabetes and primary eye care /
RE735 .E93 2005		Normal	Binocular vision /
RE871 .M25 2006		Normal	The pediatric glaucomas /
RE871 .T76 1997		Normal	Glaucoma :
RE901.T67 G73 1986		Normal	Toxicology of the eye :
RE921 .S23 1997		Normal	The island of the colorblind and Cycad Island /
RE921 .S23 1997		Normal	The island of the colorblind and Cycad Island /
RE925 .B64 2006		Normal	Borish's clinical refraction /
RE925 .G67 1995		Normal	Ocular accommodation, convergence, and fixation disparity :
RE925 .H76 1996		Normal	Last minute optics :
RE925 .L46 2006		Normal	Optics, retinoscopy, and refractometry /
RE925 .L47		Normal	Clinical refraction and visual science /
RE925 .W47 2002		Normal	Clinical pearls in refractive care /
RE927 .B46 1989		Normal	Clinical visual optics /
RE938.5 .J57 1989		Normal	Presbyopia research :
RE938.5 .P74 1987		Normal	Presbyopia :
RE939.7 .M54 1990		Normal	Dictionary of optometry /
RE951 .B4		Normal	Ophthalmic prescription work.
RE951 .D68 1988		Normal	Practical aspects of ophthalmic optics /
RE951 .D73 1990		Normal	Ophthalmic dispensing :
RE951 .F36 1987		Normal	Clinical optics /
RE951 .G76 1996		Normal	Primary care optometry :
RE951 .J35 2003		Normal	Ophthalmic lenses & dispensing /

RE951 .S2		Normal	The principles and practice of optical dispensing and fitting.
RE952 .B45		Normal	Spectacles for aphakia /
RE952.5.C45 S37 2000		Normal	Dispensing pediatric eyewear /
RE952.9 .M363 2009		Normal	The optician training manual :
RE952.9 .O65 1990		Normal	Opticianry, ocularistry and ophthalmic technology /
RE952.9 .W66 2003		Normal	Optical training :
RE952.9 .Z45 1987		Normal	A dispensing optician manual :
RE959 .P52 2008		Normal	Law and ethics for the eye care professional /
RE959.3 .B45 1993		Normal	Management for the eyecare practitioner /
RE959.3 .M36 1999		Normal	Management for opticians /
RE959.5 .M67 2008		Normal	Complete optometric assistant /
RE961 .J3 1977		Normal	The principles of ophthalmic lenses /
RE962 .B67	v. 2	Normal	Opticianry :
RE962 .B67	v. 4	Normal	Opticianry :
RE962 .B67	V. 3	Normal	Opticianry :
RE962 .B67	V. 1	Normal	Opticianry :
RE962 .B76 1983		Normal	Essentials for ophthalmic lens work /
RE976 .B78 1991		Normal	Understanding lens surfacing /
RE976 .E95 1994		Normal	Envision yourself :
RE976 .F69 2001		Normal	Spectacle lenses :
RE976 .S74 1999		Normal	CLAO guide to spectacles and dispensing :
RE976 .W42 1996		Normal	Eyeglassery /
RE977.C6 A7 1991		Normal	Close contacts :
RE977.C6 C525 2009		Normal	Clinical manual of contact lenses /
RE977.C6 C5557 1997		Normal	Contact lenses for pre-- and post-surgery /
RE977.C6 C5558 1997		Normal	Contact lenses :
RE977.C6 C55584 1995		Normal	Contact lens problem solving /
RE977.C6 D36 1999		Normal	Contact lenses /
RE977.C6 D68 1995		Normal	Contact lens optics and lens design /
RE977.C6 E34 2004		Normal	Contact lens complications /
RE977.C6 G38 2003		Normal	The contact lens manual :
RE977.C6 H289 1996		Normal	Contact lenses :
RE977.C6 H294 1991		Normal	Contemporary contact lens practice /
RE977.C6 H535 1988		Normal	Contact lens perspectives /

RE977.C6 J62 2000		Normal	Common contact lens complications :
RE977.C6 M254 2004		Normal	Contact lenses in ophthalmic practice /
RE977.C6 M257 2006		Normal	Manual of contact lens prescribing and fitting with CD-ROM /
RE977.C6 M36 2004		Normal	Manual of gas permeable contact lenses /
RE977.C6 S38 1996		Normal	Specialty contact lenses :
RE977.C6 S73 2002		Normal	Fitting guide for rigid and soft contact lenses :
RE977.C6 T44 2001		Normal	Test review II for contact lens technicians /
RE977.C6 T77 2001		Normal	Test review for contact lens technicians /
RE977.C6 W556 1995		Normal	Orthokeratology handbook /
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