

**J. Sargeant Reynolds
Community College**

**School of Nursing and Allied
Health**

OPTICIANRY STUDENT HANDBOOK

A.A.S. Degree Program
&
Opticians Apprentice Career Studies Certificate

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WELCOME TO J. SARGEANT REYNOLDS COMMUNITY COLLEGE

Welcome and congratulations on your acceptance into the Opticianry Program here at J. Sargeant Reynolds Community College. We hope that your college experience will be pleasant as well as beneficial. This student handbook contains information about the Opticianry program, our accreditation agencies, the field of Opticianry, and specific information concerning the Opticianry Program. Use this handbook to familiarize yourself with the program and its requirements. This Opticianry handbook along with the J. Sargeant Reynolds College Catalog and the J. Sargeant Reynolds Student Handbook will provide you with valuable information concerning academic procedures, guidelines and requirements of a J. Sargeant Reynolds Community College student.

Each student is given a copy of these catalogs and 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.

College catalog:

<http://www.jsr.vccs.edu/catalog/>

JSRCC Student Handbook:

<http://www.jsr.vccs.edu/catalog/JSRCCCollegeHandbook.pdf>

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.

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PROGRAM DESCRIPTION

The program is accredited by the Southern Association of Colleges and Schools. The program is nationally accredited by the Commission on Opticianry Accreditation. J. Sargeant Reynolds Community College Opticianry Program is 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 and fitting of eyeglasses and contact lenses.

SNAH Program Course Offerings

The college offers this program in affiliation with the healthcare agencies and practitioners in the communities the college serves. The college relies on its community affiliates to provide clinical education opportunities for its students, expert clinical preceptors, and course instructors for many courses. The often 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.

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 states. Completion of the Opticians Apprentice Certificate satisfies the related instruction component of the Virginia apprenticeship program. The courses give a basis for many different employment opportunities in the optical field, but are designed to provide the education needed to have a successful career as a **LICENSED OPTICIAN**.

PROGRAM MISSION STATEMENT

The mission of the J. Sargeant Reynolds Community College Opticianry Program is to provide quality training and instruction in the profession of Opticianry. As an equal opportunity institution, JSRCC welcomes all and encourages its students to seek excellence in their studies. The program further encourages the students to learn to conduct an ethical professional practice of Opticianry in order to provide a superior standard of care for the people of the State of Virginia.

GOALS

The goals of the J. Sargeant Reynolds Community College Opticianry Program were developed in concert with the program's philosophy and the mission and goals of the college.

1. To upgrade the profession of Opticianry through formal opticianry education. Adding to the profession men and women who are well qualified to interpret prescriptions, fabricate eyewear, dispense spectacles and contact lenses, communicate effectively, utilize sales techniques, and are self confident to serve the visual needs of the public.
2. To stimulate growth and development of the Opticianry student into a responsible, competent, enthusiastic, professional who maintains environmental and ethical standards, and works well with other professionals in his/her field.
3. To prepare graduates for entry employment in the optical field.
4. To prepare Opticianry students for successful completion of national certification and/or state licensing exams.

PROGRAM REQUIREMENTS

To earn the A.A.S. Degree in Opticianry, a total of 70 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 optical field. The optical courses are sequential, therefore, the student cannot continue into a higher course without successfully completing the prerequisite course(s). 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 address these needs and provide a foundation for success in all of these areas. A list of the required courses in the curriculum will be found on pages 11-12. You will be assigned a faculty advisor to guide you, but **the ultimate responsibility for enrolling in the proper course is yours**. A graduation check list will be found on Pages 11-12. This list is to be used as a check sheet to insure that you have met all the program course requirements. The program learning outcomes are found on page 14.

DISABILITIES ACT STATEMENT

Under the Americans with Disabilities Act, students are eligible to receive reasonable accommodations for physical handicaps, emotional illnesses or officially diagnosed learning disabilities if these are identified to the institution. Please contact the Dean of Students to request a reasonable accommodation.

HOMEWORK POLICY

A college education is gained from a combination of attending lectures and/or labs, completing formal assignments, and doing additional homework. Amounts 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 do two hours of homework for every one hour of class time. When an instructor does not give assignments to fill this time, you are expected to do some work on your own.

To help you be successful, J. Sargeant Reynolds offers a number of 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.

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.

In the event that 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.

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.

GRADE REQUIREMENTS

The following standards will be used in the Opticianry Program

100 - 91 = A
90 - 81 = B
80 - 71 = C
70 - 61 = D ^{1,2}
Below 61 = F ²

¹ Requires a conference with the Program Director to repeat the course within the first semester of study. The first semester of study in the opticianry courses includes Opt 121, 150, and 152. The student can only proceed in the program if they make marked improvement in the following semester, earning a C or better.

² An F at any time requires the course to be repeated. A D also requires the course to be repeated in any courses in the second, third, fourth and fifth semesters of the Associate Degree program.

INCLEMENT WEATHER POLICY

Every effort will be made to keep the college open in bad weather. This means that the college may remain open even though the local public schools are closed. When weather conditions mandate closing the college, the decision will be announced on the **college website**, over the radio and television. In the event such conditions develop during the day, notification will be from the president's office to the provosts' offices and from there to all locations under the jurisdiction of that campus. The college will contact radio station **WRVA** and television station **WWBT Channel 12** first.

When the college is closed in the morning, every effort will be made to have the announcements on the **radio by 6:30 a.m.** The best location to check for school closings is the college website **www.reynolds.edu**. Evening classes may be held even though day classes are canceled or evening classes may be canceled when day classes are held. **Announcements about evening classes will be made on the radio(WRVA) between 3:30 and 6:00 p.m.**

All students are urged to use sound judgment in their attempt to honor this policy. In some instances, road conditions might be extremely hazardous and taking the risk of driving might not

be in the best interest and welfare of the student. In cases where road conditions prevent a student from attending classes he/she will not be penalized academically.

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). J. Sargeant 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.

COUNSELING POLICY

The Opticianry Program uses the counseling policy as stated in the current college catalog. You may also contact the Office of Student Affairs at 804-523-5298, Parham campus BH246.

EMERGENCY PROCEDURES

Under all circumstances students, staff and faculty must contact the campus POLICE office if an emergency situation occurs. The Police Office on the downtown campus is located on the first floor **room 122. The phone number is 523-5472.** Emergency medical care is the responsibility of the security officers who are trained in emergency medical techniques. In an emergency, they would administer emergency treatment until the area emergency squad arrived. In the case of a fire alarm sounding, everyone must exit the building immediately. Do not use elevators, use the stairs.

Be aware of the closest stairwell location when in the building. You cannot exit to the parking deck. When we are required to evacuate the building we must exit through the ground floor and cross the street to a designated area. Any students in the parking deck will be escorted to the appropriate site. No vehicles will be allowed to exit the deck until the situation is secured by the appropriate officials.

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 shop area and act in a safe and appropriate manner.

Material Safety Data Sheets (MSDS) 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.

CLINICAL RESPONSIBILITIES

During their second year, fourth and fifth semester, on campus students will fit actual patients with eyewear in the JSRCC Eyeglass Clinic. During the fifth semester only, the students will also fit actual patients in the JSRCC Contact Lens Clinic. Distance education students will be required to have an approved clinical site and preceptor to perform these courses. The clinical courses provide excellent learning experiences, and 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 6 hours a week 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 JSRCC Eyeglass and Contact Lens 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 of the College. Clinic rules and regulations will be given to each student and discussed in detail the first clinical class meeting.

The Eyeglass Clinic will be open for regular hours that will be posted every fall and spring semesters. The Contact Lens Clinic will be open only during the spring semester. The Eyeglass and Contact Lens clinics are located on the 5th floor of the Downtown Campus.

All measurements, fittings and adjustments of eyewear and contact lenses must be checked by the instructor or supervisor. 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 licensed.

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

Eye examination (4th semester students)	\$35-85
Personal pair of industrial quality safety glasses	\$15-50
White Laboratory Coat	\$20-45
Name Badge	\$8
Headset for online meetings	\$20-70

Note: The above costs are approximate and subject to change.

Graduation Checklists

Instructions:

1. Determine a plan for completion of your curriculum and **have it approved** by the Program Director. As you complete a semester, check off the courses you have completed.
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 on your unofficial transcript contact the records office at 804-523-5029.
3. The semester before you wish to graduate, print your unofficial transcript from the student information system. Bring it and this form **completed** to the program director for final review and approval.

COLLEGE GRADUATION REQUIREMENTS FOR GRADUATION

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 Admissions and Records Office.
3. Satisfactorily fulfill all obligations, financial and otherwise, to the College.
4. Achieve a minimum cumulative index of 2.00.

GRADUATION CHECK LIST

Student: _____ Empli ID: _____

Opticianry AAS Degree Program

Course #	Course Name	Term to complete	Completed <input type="checkbox"/>
ENG 111	College Composition I		
SDV 100	Orientation		
MTH 120	Introduction to Mathematics		
OPT 150	Optical Laboratory Theory I		
OPT 152	Optical Laboratory Clinical I		
	Health or Physical Education Elective		
ITE 115	Introduction to Information Systems		
OPT 105	Anatomy, Physiology, Pathology of Eye		
OPT 151	Optical Laboratory Theory II		
OPT 153	Optical Laboratory Clinical II		
OPT 121	Optical Theory I		
OPT 154	Optical Business Management		
OPT 160	Optical Dispensing Theory I		
OPT 165	Optical Dispensing Clinical I		
OPT 273	Contact Lens Theory I		
ENG 112	College Composition II		
OPT 260	Optical Dispensing Theory II		
OPT 271	Optical Dispensing Clinical II		
OPT 274	Contact Lens Theory II		
OPT 122	Optical Theory II		
OPT 253	Current Optical Trends		
OPT 280	Contact Lens Clinical		
OPT 272	Optical Dispensing Clinical III		
	Humanities Elective		
	Social Science Elective		

Approved by Program Head: _____ Date: _____

GRADUATION CHECKLIST

Student: _____ Empli ID: _____

Opticianry Apprentice Career Studies Certificate

Course #	Course Name	Term to complete	Completed <input type="checkbox"/>
OPT 150	Optical Laboratory Theory I		
OPT 121	Optical Theory I		
OPT 122	Optical Theory II		
OPT 105	Anatomy, Physiology, and Pathology of the Eye		
OPT 160	Optical Dispensing Theory I		
OPT 151	Optical Laboratory Theory II		
OPT 154	Optical Business Management		

Approved by Program Head: _____ date: _____

Very Important 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.

Graduation applications can be found on campus or on the college website. Application deadline dates are posted in the class schedules each semester and on the college web site.

VA State Board Exam applications & deadline dates can be received from the State Board of Opticianry 804-367-8509, 9960 Mayland Dr. Richmond, Va. 23233

***if taking the NCLE also, that is a separate application you will need to request.

In the 1st week of your last semester, make sure you find out the dates that your applications for graduation and the state boards are due!

Print and Complete this form for your information.

JSRCC Graduation:	<u>Application Deadline</u>	<u>Application Fee</u> <i>None</i>	<u>Date Completed</u>
Opticianry State Board Exam:	<u>Application Deadline</u>	<u>Application Fee</u>	<u>Date Completed</u>

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 Knowledge and understanding of refractometry

College Grievance Policy

J. Sargeant 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 on page 45.

OPTICIANRY COURSE DESCRIPTIONS

OPT 121 Optical Theory I (3 cr.)

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 cr.)

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 cr.)

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 cr.)

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 cr.)

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 cr.)

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 cr.)

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. (offered online only)

OPT 160 Optical Dispensing Theory I (3 cr.)

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 cr.)

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. Corequisite: OPT 160. Laboratory 4 hours per week.

OPT 253 Current Optical Trends (2 cr.)

Presents current trends in the optical profession. Examines the impact of new materials, new health care issues, and medical advances as they relate to the visual needs and wants of society. Prerequisite: OPT 260 and OPT 271 or equivalent. Lecture 2 hours per week.

OPT 260 Optical Dispensing Theory II (3 cr.)

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 cr.)

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 cr.)

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 Theory I (3 cr.)

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 3 hours per week.

OPT 274 Contact Lens Theory II (3 cr.)

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.

OPT 280 Contact Lens Clinical (3 cr.) 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. Laboratory 6 hours per week.

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

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. (offered online only)

STATE OPTICIANRY LICENSING BOARDS

Since specific details vary from time to time and legislative changes occur frequently, please contact these agencies directly when up-to-date information is desired. The best way to get the most current and accurate information is from the internet. You can find any of the State and National Organization on the NFOS website www.nfos.org in the optical links.

Virginia State Board of Opticianry
9960 Mayland Dr.
Richmond Va. 23233
804-367-8509
<http://www.state.va.us/dpor/>

JSRCC LEARNING RESOURCE CENTER HOLDINGS

BOOKS (no author)

Adler's Physiology of the Eye : clinical application Mosby, 2003	RE67 A32
Advanced Contact Lens Manual : A comprehensive study and reference guide. Vol. II Contact Lens, Society of, 1998	RE977 C6 C559
Borish's Clinical Refraction W. B. Saunders, 1998	RE925 B64
Clinical Light Damage to the Eye Springer-Verlag, 1987	RE48 C56
Clinical Procedures for Ocular Examination Appleton & Lange	RE75 C474
Contact Lens Correction Butterworths, 1977	RE977 C6 C557
Contact Lens Problem Solving Mosby, 1995	RE977 C6 C55584

Contact Lenses : A Textbook for Practitioner and Student Butterworths, 1980-1981	RE977 C6 C59
Contact Lenses : A Textbook for Practitioner and Student Butterworths, 1989	RE977 C6 C59
Contact Lenses : Fundamentals and Clinical Use Slack, 1997	RE977 C6 C5558
Contact Lenses for Pre- and Post-Surgery Mosby, 1997	RE977 C6 C5557
Contact Lenses in Ophthalmic Practice Springer, 2004	RE977 C6 M254
Contemporary Contact Lens Practice Professional Press, 1972	RE977 C6 G73
Dictionary of Visual Science Chilton Book Co., 1980	RE21 D42
Envision Yourself : An Independent Study Guide to Successful Eyewear Dispensing & Marketing Vision Council of America, 1994	RE976 E95
The Eye in Childhood Grune & Stratton, 1983	RE48 2 C5 E93
The Eye Academic Press, 1969	QP475 E92
Fitting Guide for Rigid and Soft Contact Lenses : A Practical Approach Mosby, 2002	RE977 C6 S73
Handbook of Optics McGraw-Hill, 1978	QC369 H35
Living with Vision Problems : The Sourcebook for Blindness and Vision Impairment Checkmark Books, 2002	RE51 L585
Management for Opticians Butterworth-Heinemann, 1999	RE959 3 M36
Manual of Contact Lens Prescribing and Fitting Butterworth-Heinemann, 1997	RE977 C6 M257

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