Cuyahoga Community College

Viewing: OPT-1520 : Optical Dispensing II

Board of Trustees:
2016-01-28

Academic Term:
2016-08-25

Subject Code
OPT - Optical Technology

Course Number:
1520

Title:
Optical Dispensing II

Catalog Description:
Beginning principles of design, fitting, verification and dispensing of spectacles.

Credit Hour(s):
3

Lecture Hour(s):
2

Lab Hour(s):
3

Other Hour(s):
0

Requisites

Prerequisite and Corequisite
OPT-1510 Optical Dispensing I.

I. ACADEMIC CREDIT

Academic Credit According to the Ohio Department of Higher Education, one (1) semester hour of college credit will be awarded for each lecture hour. Students will be expected to work on out-of-class assignments on a regular basis which, over the length of the course, would normally average two hours of out-of-class study for each hour of formal class activity. For laboratory hours, one (1) credit shall be awarded for a minimum of three laboratory hours in a standard week for which little or no out-of-class study is required since three hours will be in the lab (i.e. Laboratory 03 hours). Whereas, one (1) credit shall be awarded for a minimum of two laboratory hours in a standard week, if supplemented by out-of-class assignments which would normally average one hour of out-of-class study preparing for or following up the laboratory experience (i.e. Laboratory 02 hours). Credit is also awarded for other hours such as directed practice, practicum, cooperative work experience, and field experience. The number of hours required to receive credit is listed under Other Hours on the syllabus. The number of credit hours for lecture, lab and other hours are listed at the beginning of the syllabus. Make sure you can prioritize your time accordingly. Proper planning, prioritization and dedication will enhance your success in this course.

The standard expectation for an online course is that you will spend 3 hours per week for each credit hour.

II. ACCESSIBILITY STATEMENT

If you need any special course adaptations or accommodations because of a documented disability, please notify your instructor within a reasonable length of time, preferably the first week of the term with formal notice of that need (i.e. an official letter from the Student Accessibility Services (SAS) office). Accommodations will not be made retroactively.

For specific information pertaining to ADA accommodation, please contact your campus SAS office or visit online athttp://www.tri-c.edu/accessprograms. Blackboard accessibility information is available athttp://access.blackboard.com.
Eastern (216) 987-2052 - Voice
III. ATTENDANCE TRACKING

Regular class attendance is expected. Tri-C is required by law to verify the enrollment of students who participate in federal Title IV student aid programs and/or who receive educational benefits through other funding sources. Eligibility for federal student financial aid is, in part, based on your enrollment status.

Students who do not attend classes for the entire term are required to withdraw from the course(s). Additionally, students who withdraw from a course or stop attending class without officially withdrawing may be required to return all or a portion of the financial aid based on the date of last attendance. Students who do not attend the full session are responsible for withdrawing from the course(s).

Tri-C is responsible for identifying students who have not attended a course, before financial aid funds can be applied to students’ accounts. Therefore, attendance will be recorded in the following ways:

For in-person courses, students are required to attend the course by the 15th day of the semester, or equivalent for terms shorter than 5-weeks, to be considered attending. Students who have not met all attendance requirements for an in-person course, as described herein, within the first two weeks of the semester, or equivalent, will be considered not attending and will be reported for non-attendance and dropped from the course.

For blended-learning courses, students are required to attend the course by the 15th day of the semester, or equivalent for terms shorter than 5-weeks, or submit an assignment, to be considered attending. Students who have not met all attendance requirements for a blended-learning courses, as described herein, within the first two weeks of the semester, or equivalent, will be considered not attending and will be reported for non-attendance and dropped from the course.

For online courses, students are required to login in at least two (2) times per week and submit one (1) assignment per week for the first two (2) weeks of the semester, or equivalent to the 15th day of the term. Students who have not met all attendance requirements for an online course, as described herein, within the first two weeks of the semester, or equivalent, will be considered not attending and will be reported for non-attendance and dropped from the course.

At the conclusion of the first two weeks of a semester, or equivalent, instructors report any registered students who have “Never Attended” a course. Those students will be administratively withdrawn from that course. However, after the time period in the previous paragraphs, if a student stops attending a class, wants or needs to withdraw, for any reason, it is the student’s responsibility to take action to withdraw from the course. Students must complete and submit the appropriate Tri-C form by the established withdrawal deadline.

Tri-C is required to ensure that students receive financial aid only for courses that they attend and complete. Students reported for not attending at least one of their registered courses will have all financial aid funds held until confirmation of attendance in registered courses has been verified. Students who fail to complete at least one course may be required to repay all or a portion of their federal financial aid funds and may be ineligible to receive future federal financial aid awards. Students who withdraw from classes prior to completing more than 60 percent of their enrolled class time may be subject to the required federal refund policy.

IV. CONCEALED CARRY STATEMENT

College policy prohibits the possession of weapons on college property by students, faculty and staff, unless specifically approved in advance as a job-related requirement (i.e., Tri-C campus police officers) or, in accordance with Ohio law, secured in a parked vehicle in a designated parking area only by an individual in possession of a valid conceal carry permit.

As a Tri-C student, your behavior on campus must comply with the student code of conduct which is available on page 29 within the Tri-C student handbook, available at http://www.tri-c.edu/student-resources/documents/studenthandbook.pdf You must also comply with the College’s Zero Tolerance for Violence on College Property available at http://www.tri-c.edu/policies-and-procedures/documents/3354-1-20-10-zero-tolerance-for-violence-policy.pdf

Outcomes

Course Outcome(s):
Utilize prescription analysis, fitting theory, geometric optics and the use of ophthalmic equipment to design accurate eyewear.

Objective(s):
1. Use ophthalmic equipment to determine an ophthalmic prescription.
2. Discuss HIPAA as it pertains to the design and delivery of eyewear.
3. Apply geometric optics, federal regulations, and proper use of ophthalmic equipment to determine the accuracy of eyewear.
4. Analyze ophthalmic prescriptions in order to design single vision or multifocal eyewear.
5. Assess the vocational and avocational needs of the patient.
6. Determine all physiognomic measurements.
7. Prepare ophthalmic laboratory work orders.
8. Adjust ophthalmic frames to fit the patient comfortably.
9. Verify the accuracy of spectacles fabricated in an ophthalmic laboratory.
10. Discuss absorptive lenses.

**Course Outcome(s):**
Communicate with various stakeholders throughout the process of fitting and dispensing eyewear.

**Objective(s):**
1. Assess the vocational and avocational needs of the patient.
2. Prepare ophthalmic laboratory work orders.
3. Adjust ophthalmic frames to fit the patient comfortably.
4. Discuss absorptive lenses.

**Course Outcome(s):**
Work within the standards that govern opticianry.

**Objective(s):**
1. Discuss HIPAA as it pertains to the design and delivery of eyewear.
2. Determine all physiognomic measurements.

**Course Outcome(s):**
Perform work tasks in accordance with industry expectations for ophthalmic professionals.

**Objective(s):**
1. Discuss HIPAA as it pertains to the design and delivery of eyewear.
2. Analyze ophthalmic prescriptions in order to design single vision or multifocal eyewear.
3. Determine all physiognomic measurements.
4. Prepare ophthalmic laboratory work orders.
5. Adjust ophthalmic frames to fit the patient comfortably.
6. Verify the accuracy of spectacles fabricated in an ophthalmic laboratory.

**Methods of Evaluation:**
1. Weekly quizzes
2. Midterm
3. Final exam
4. Attendance
5. Task analysis and evaluation of manipulative skills
6. Skills check points

**Course Content Outline:**
1. Interpersonal relationships
   a. First visit
   b. Rx selection and interpretation
   c. Frame selection and style
   d. Exit interview
   e. Phone etiquette
2. Stock knowledge
   a. Frames in stock
   b. Lenses carried
   c. Tints
   d. Special orders
   e. Eye examinations
3. Interpupillary measurements
   a. Interpupillary distance (P. D.) ruler
   b. Pupillometer devices
c. Meaning of distance P. D.
d. Meaning of near P. D.

4. Editing the prescription form
   a. Rx
   b. P. D.
   c. Frame
   d. Color of frame
   e. Lens color and style
   f. Glass or plastic

5. Pricing
   a. Frame cost
   b. Lens cost
   c. Service charges
   d. Dispensing fees
   e. Taxes

6. Adjusting and dispensing of glasses
   a. Four point touch test
   b. Temple bends
   c. Bridge bends
   d. Pantoscope tilt
   e. Retroscopic tilt

7. Record keeping
   a. Computer files
   b. Peg board accounts
   c. Roto files
   d. Billing
   e. Income taxes
   f. Costs of overheads
   g. Expenditures

Resources


Michaels, David D. "Anatomy and Physiology of the Eye"

Michaels, David D. "Anlsalkonia"

Michaels, David D. "Anslomatropla"

Michaels, David D. "Presbyopia"

Pitts, Donald G. "Ultraviolet Radiation and How to Protect the Eye Against It"

Ross, Norman E. "Finding the Power of Lens in any Meridian"

Russell, Bonnie. "Fitting, Fabrication and Delivery of the Ocular Prosthesis"

Schuler, Don A. "Moisture Chamber Eyewear"

Vogel, Irwin. "Understanding Aphakic"

Ogle, Kenneth. "Practical Optics"

"Frames"

National Academy of Opticianry. "Continuing Education Courses"


Davis, John K. "Geometric Optics in Ophthalmic Lens Design"

Davis, John K., and Kenneth D. Wagner. "The Effects of Prescription Errors and Departure from Good Design"

DiSanto, Michael R. "Identifying the Unknown Progressive"

Mattison-Shupnick, Mark. "Basic Optical Principles"

Mattison-Shupnick, Mark. "Final Inspection and Delivery of Eyeglasses"

Mattison-Shupnick, Mark. "Ophthalmic Instrumentation"

Mattison-Shupnick, Mark. "Ordering Ophthalmic Lenses"