## UR East Overview of Year

**11th/12th Grade**

**Vision Care II Curriculum**

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<th>MARCH</th>
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<td>Ophthalmic Fabrication</td>
<td>Lenses and Frames</td>
<td>Clinic Procedures</td>
<td>Multifocal Lenses</td>
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### Unit 1- Ophthalmic Fabrication

**Mission/Vision alignment**
- **Tenacious:** Recognizes and takes advantage of opportunities to discover passions
- **Think Purposeful:** Thinks creatively to solve problems, make decisions, and take action
- **Advocate:** Accepts differences and listens to the voice of others

**CDOS Standards (Career Development and Occupational Studies):**
1, 2, 3a, and 3b

**Understanding**

Enduring Understandings:
- Scholars will understand that...
  1. There are different ophthalmic profession choices that are open to me after this program
  2. Glasses correct for different types of astigmatism, and that myopia and hyperopia are the 2 types of visual disorders that people experience
  3. Each step of the fabrication of glasses must be completed accurately
  4. Using the lensometer is accurately is important to ensure the patients prescription is accurate
  5. The mathematical determination of decentration is necessary to accurately place the optical center of the lens in front of a patients pupil
  6. How the tracer and edger work together to accurately cut the shape of the lens, and what to do to determine errors in size
  7. How to use ANSI standards to determine whether a prescription is accurate for the patient and the prescription

**Essential Question**

Essential Questions:
- Scholars will consider such questions as...
  1. What can I do after this class?
  2. How do I make a pair of glasses?
  3. Why do I need to know the difference between spherical and cylindrical lines in the lensometer?
  4. How do glasses help to correct my vision?
  5. Why do I need to block lenses at the correct decentration?
  6. How does the tracer help me to make glasses?
  7. Why are ANSI standards?
**Performance Task:** Scholars will be given a finished pair of glasses and a patient work ticket. They will use the work ticket, and ANSI standards, to determine if the prescription is accurate for the patient, what went wrong in the manufacture process, and produce a pair that is accurate for the patient.

2. Scholars will find and interview an optician (10 - 15 minute interview) where they will ask questions regarding how the optician got into the job, what they like, what they find difficult, as well as other pertinent questions. Scholars will write a short report about the interview and will present it to the class.

**Formative Assessments:** Career Pathways programs will monitor universal employability skills for each student. These will be formally assessed with an Employability Profile.
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<tr>
<th>Mission/Vision alignment</th>
<th>Understanding</th>
<th>Essential Question</th>
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</table>
| • Tenacious: Learns from mistakes; picks up and keeps going | Enduring Understandings  
Scholars will understand that… | Essential Questions  
Scholars will consider such questions as… |
| • Think Purposeful: Produces work that meets college and work place standards | 1. Lenses come in a variety of materials and should be picked based on the customer needs. | 1. What are the different types of lenses I could use to make a pair of glasses? |
| • Advocate: Speaks confidently and is willing to respectfully voice opinions to advocate for self or others | 2. Different types of lenses have different requirements for handling as they are manufactured. | 2. What are the different types of frames patients might want to use? |
| | 3. Different types of frames are mounted and manufactured differently | 3. Why are there different ways to care for the types of lenses and frames? |

CDOS Standards (Career Development and Occupational Studies):  
1, 2, 3a, and 3b

CCTC Standards (Common Career Technical Core)  
1, 2, 4, 8, 9, 11

Performance Task:  
Scholars will correctly trace, cut, and mount semi-rimless polycarbonate lenses into a frame for a patient such that they do not crack the lenses or breaking the mounting wire.

Formative Assessments:  
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<th>Unit 3- Clinic Procedures</th>
<th>Understanding</th>
<th>Essential Question</th>
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| **Mission/Vision alignment**  
  - **Tenacious**: Uses feedback to refine thinking or actions  
  - **Think Purposeful**: Uses foundational knowledge and essential literacies to develop deeper understandings  
  - **Advocate**: Leads by example  

  **CDOS Standards (Career Development and Occupational Studies):**  
  1, 2, 3a, and 3b  

  **CCTC Standards (Common Career Technical Core):**  
  1, 2, 4, 8, 9, 11  

  **Enduring Understandings**  
  Scholars will understand that...  
  1. *Customer service is a universal component of all service jobs and industries and have several important components*  
  2. *Specific machines are used to determine important measurements for the doctor to determine patients eye health*  
  3. *The work ticket must be accurately filled out in order to accurately manufacture a pair of glasses for a patient*  
  4. *Patient records are accurately recorded and maintained in the database*  
  5. *Professional standards are an important aspect of behavior – ethics and HIPPA rules*  

  **Essential Questions**  
  Scholars will consider such questions as...  
  1. What is the best way to talk to a patient?  
  2. What patient measurements do I need to take for the doctor and for making glasses?  
  3. What machines do I use as I prepare the patient to see the eye doctor?  
  4. How do I maintain a patient’s medical records?  

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<tr>
<th>Performance Tasks:</th>
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</table>
| The scholar will demonstrate the accurate use of all machinery for pre-screening a patient, working to develop a patient/optician rapport, and will be able to utilize these skills during patient screenings with local volunteer eye doctors present  

**Career Pathways programs will monitor universal employability skills for each student. These will be formally assessed with an Employability Profile.**  

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May 4, 2017
## UR East Overview of Year

### 11th/12th Grade

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<tr>
<th>Unit 4- Multifocal Lenses</th>
<th>Understanding</th>
<th>Essential Question</th>
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<tr>
<td><strong>Mission/Vision alignment</strong></td>
<td>Enduring Understandings&lt;br&gt;<strong>Scholars will understand that...</strong>&lt;br&gt;1. How multifocal lenses differ from single vision lenses and the different uses of each&lt;br&gt;2. The techniques for manufacturing multifocal lenses and how they differ from those necessary for manufacturing single vision lenses&lt;br&gt;3. The digital lens system is a lens molding system where the prescription is loaded into the machine and glass lenses are used to hold a glass monomer to make a lens that is not “stock.”</td>
<td><strong>Essential Questions</strong>&lt;br&gt;<strong>Scholars will consider such questions as...</strong>&lt;br&gt;1. How are multifocal lenses different from single vision lenses?&lt;br&gt;2. How do I measure a patient for a multifocal lens?&lt;br&gt;3. What are the markings on a progressive lens for?&lt;br&gt;4. How do I block a multifocal lens?&lt;br&gt;5. What is the digital lens system?&lt;br&gt;6. How do I fit the multifocal lens to the patients face?</td>
</tr>
<tr>
<td><strong>CDOS Standards (Career Development and Occupational Studies):</strong>&lt;br&gt;1, 2, 3a, and 3b</td>
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<tr>
<td><strong>CCTC Standards (Common Career Technical Core):</strong>&lt;br&gt;1, 2, 4, 8, 9, 11</td>
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**Performance Task:**

Scholars will produce a pair of progressive and bifocal lenses for patients using the lens molding system, accurately measuring and fitting them for the lenses, while helping them to pick out frames that fit their facial features.

**Formative Assessments:**

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<th>Unit 5 - Dispensing</th>
<th>Understanding</th>
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<td><strong>Mission/Vision alignment</strong></td>
<td><strong>Enduring Understandings</strong></td>
<td><strong>Essential Questions</strong></td>
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<td>- <strong>Tenacious:</strong> Defines goals and develops a plan to meet them</td>
<td>Scholars will understand that…</td>
<td>Scholars will consider such questions as…</td>
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<tr>
<td>- <strong>Think Purposeful:</strong> Listens to and seeks out varying perspectives as part of thinking, decision making, and problem solving</td>
<td>1. Bench alignment of frames helps to ensure proper fit of manufactured glasses on patients face</td>
<td>1. How do I make sure that the lenses fit the patients face when I hand them to the patient?</td>
</tr>
<tr>
<td>- <strong>Advocate:</strong> Identifies and utilizes skills to support self and others</td>
<td>2. When dispensing to a patient they must be told when it is best to use their glasses based on their prescription and how to safely care for them.</td>
<td>2. How do I know what frames will look good on the patient?</td>
</tr>
<tr>
<td>CDOS Standards (Career Development and Occupational Studies):</td>
<td>3. The rules regarding different face shapes and frames that look best for them</td>
<td>3. How do I tell patients to take care of their glasses?</td>
</tr>
<tr>
<td>1, 2, 3a, and 3b</td>
<td>4. There are specific steps, and tools, to use to fix frames that are crooked on the patients face</td>
<td>4. What do I do if the glasses are crooked on the patients face?</td>
</tr>
<tr>
<td>CCTC Standards (Common Career Technical Core)</td>
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<td>5.</td>
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<tr>
<td>1, 2, 4, 8, 9, 11</td>
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<tr>
<td><strong>Performance Task:</strong></td>
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<tr>
<td>Scholars will demonstrate their mastery of these skills as they work to help a patient pick out frames that are complementary to their face shape and fix frames that are sitting crooked on their face.</td>
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Formative Assessments:

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