OPTICS AND VISION CORRECTION
Course Syllabus

Course Number: HLTH-0354  
OCAS Code: None  
Course Length: 45 Hours  
Career Cluster: Health Science  
Career Pathway: Therapeutic Service  
Career Major(s): Vision Care Technician, Vision Care Assistant  

Pre-requisite(s):  
Course Description: This course includes the study of basic optics and refractive error correction.

Textbooks: TBA  

Course Objectives:  
A. Basic optics  
1. Describe the aspects and characteristics of light transmission.  
2. Demonstrate basic optics calculations.  
3. Describe the concepts of refraction, reflection and diffraction.  
4. Describe the electromagnetic spectrum.  
5. Calculate the index of refraction of a substance.

B. Refractive errors and correction  
1. Describe the major components of a refractive error.  
2. Describe the cause for each component of a refractive error.  
3. Describe the options for correction of the refractive error.  
4. Describe the process of refraction and refinement.  
5. Describe the process of examination and diagnosis of a refractive error.

1 ODCTE Objective  
All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures:  
1. Students are graded on theory and lab practice and performance.  
2. Each course must be passed with seventy (70%) percent or better.  
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.  
4. Career Major grades established during coursework are a major criteria in successfully obtaining certification.
| Description of Classroom, Laboratories, and Equipment: | Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities. |
| Available Certifications/College Credit | The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information. |
| College Credit Eligibility: | The student must maintain a grade point average of 2.0 or better. |