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| **Course Number:** | 8150 (OK Promise Approved) |
| **Pre-requisite:** | None |
| **Career Cluster/Pathway:** | STEM/Web and Digital Communications |
| **Locations:** | Various locations across Oklahoma |
| **Length:** | 1 Carnegie Unit (equivalent to 120 clock hours) |

**Course Description:**

Students will acquire fundamental skills in image creation and management procedures and techniques as they create, revise, optimize, and export graphics for video, print, and web publishing.

**The student demonstrates professional standards/employability and leadership skills as required by business and industry. The students is expected to:**

* Employ the Technology Student Association (TSA) student organization or other approved CTSO program as an integral element of the curriculum.
* Demonstrate knowledge of how to dress, speak, and conduct oneself in a manner appropriate for the profession.
* Show the ability to cooperate, contribute, and collaborate as a member of a group in an effort to achieve a positive collective outcome.
* Participate in problems solving, both individually and as part of a team.
* Understand the importance of inter-disciplinary teams.
* Take minutes of a team meeting.
* Present written and oral communication in a clear, concise, and effective manner.
* Demonstrate time management skills in prioritizing tasks, following schedules, and performing goal relevant activities in a way that produces efficient results.
* Demonstrate punctuality, dependability, reliability, and responsibility in performing assigned tasks as directed.

**Students will Follow Safety Practices**

* Identify potential safety hazards and follow general laboratory safety practices.
  + Assess workplace conditions with regard to safety and health.
  + Identify potential safety issues and align with relevant safety standards to ensure a safe workplace/jobsite.
  + Locate and understand the use of shop safety equipment.
  + Select appropriate personal protective equipment.
* Use safe work practices
  + Use personal protective equipment according to manufacturer rules and regulations.
  + Follow correct procedures when using any hand or power tools.
* Complete a basic safety test without errors (100%) before using any tools or shop equipment.

**Specific Learning Competencies - *Upon successful completion of this course, the student will be able to:***

* Identify differences in platforms, browsers, display settings, etc., and related issues.
* Use scanning software and devices to properly scan reflective and transparent mediums.
* Demonstrate basic design procedures using photo-editing software that include photo enhancement, correction, restoration, and manipulation.
* Understand and employ design and color principles while creating visually appealing graphic images.
* Manipulate, troubleshoot, compress, publish and export graphics and/or animations.
* Apply appropriate techniques for web and print publishing.
* Demonstrate sensitivity in communicating with a diverse workforce.
* Understand legal and ethical issues in the IT field.
* Prepare visual design specifications and evaluate visual appeal.
* Demonstrate proficiency in the use of digital imaging techniques and equipment.
* Select and utilize appropriate software and hardware tools.
* Produce or acquire graphics, animation, audio, and/or video content.
* If using Adobe Photoshop for image editing, apply the following features appropriately: color, efficiency and automation, file management, filters and effects, image properties, layers, masks and channels, text tools, and user interface.
* If using Adobe Illustrator for vector graphics, apply the following software features appropriately: automation and customization, compiling objects, interaction with web and other applications, type tools, color, objects and shapes, interface, and enhancing artwork.
* Create and manipulate original digital images using the features of vector graphics software.

**Instruction:** (Based on 175 class periods, a typical school year)

95 Class Periods Theory

80 Class Periods Lab/Certification Preparation and Attainment

**Methods of Instruction:**

(*Choose method(s) of instruction – examples are: lectures, class discussions, hands-on-training, demonstrations, projects and performance evaluation.)*

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| **Required Testing:** | (Select one from the following options) |
| Adobe: | ACA Visual Design using Photoshop (0992)  ACA Graphic Design & Illustration using Adobe Illustrator (0297)  ACE Adobe Photoshop (4258)  ACE Adobe Illustrator (4254) |
| Precision Exams: | Digital Media IA 810 (4160)  Digital Media II (4162) |

**Recognized Primary Course Textbooks and Instructional Resources:**

* <http://www.pearsonmylabandmastering.com/northamerica/mygraphicslab/>
* Lynda.com Online Learning Library
* Adobe Revealed Series Books (Photoshop, Advanced Photoshop, Illustrator)
* Adobe Classroom in a Book <https://www.adobe.com/training/books/>
* Design Fundamentals for New Media
* Video: Digital Communication & Production
* Learn Adobe Photoshop by Video: Core Training in Visual Communication
* Adobe Illustrator Classroom in a Book
* The Graphic Designer's Digital Toolkit: A Project-Based Introduction to Adobe Photoshop Creative Cloud, Illustrator Creative Cloud & InDesign Creative Cloud, Allan Wood McIntosh College, Cengage Learning
* Adobe Photoshop Creative Cloud Revealed, Elizabeth Eisner Reding, Cengage Learning
* Adobe Illustrator Creative Cloud Revealed, Chris Botello Tabor Academy, Marion, Massachusetts, Cengage Learning

ctYOU

STEM Teacher Resources - <https://ctyou.org/mod/book/view.php?id=324688&chapterid=15687>

<https://ctyou.org/mod/book/view.php?id=324688&chapterid=15575>

<https://ctyou.org/mod/book/view.php?id=324688&chapterid=15620>

<https://ctyou.org/mod/book/view.php?id=324688&chapterid=15561>

<https://ctyou.org/mod/book/view.php?id=324688&chapterid=15655>

<https://ctyou.org/mod/book/view.php?id=324688&chapterid=15577>

OK Career Guide

<https://okcareerguide.kuder.com>

TSA

<https://www.oktsa.org>

TSA Toolkit: <https://tsaweb.org/resources/information/toolkits>

TSA Affiliation: <https://www.registermychatper.com/tsa/nat/AffLogin.aspx>

Total TSA (change log on to Total TSA) <https://www.registermychatper.com/tsa/nat/AffLogin.aspx>