

# COMPUTER GRAPHICS/ WEB DESIGN



This program explores visual communication in art, photography, film, advertising, video and the World Wide Web. Students are expected to develop projects in a highly technical environment including learning new computer languages, debugging code, and troubleshooting designs. The goal is to apply visual awareness and technical skills to create exciting, visually appealing web designs. Extensive hands-on training in several of the major software applications used in the field of graphic communication is provided. Design and build complex websites with Adobe Dreamweaver, create and modify images in Photoshop, and add animation and multimedia to their sites with Flash. If college level work is attained, student may earn up to 9 LCC credits.

**Program Location:**  
*LCC West Campus*

**Session Offered:** *AM*

**Average Lecture Days/Week:** *0-1 day*

**Average Lab Days/Week:** *4-5 days*

**Homework:** *Rarely*

**Required reading:**  
*Manuals  
E-books and/or internet information*

**LCC Credits Available:** *9  
(If college level work is attained)*

## **Student learning outcomes include but are not limited to:**

- Describe and interpret how visual images are used to communicate social, cultural, and industrial themes and messages
- Develop effective solutions to two-dimensional design problems using the elements of design
- Explore digital scanning formulas
- Locate, identify, and record the image mode, file size, resolution and pixel dimensions when given a new Photoshop digital image file
- Explore re-touching tools and techniques
- Determine design priorities and alternatives based on an understanding of clients' requirements
- Create and build web sites based on the elements of design
- Build web sites using Web Standards, separating content from style using XHTML and CSS
- Create and modify pixel-based images
- Create animations for use on the web

## HIGH SCHOOL/COLLEGE CREDIT

The primary focus of the Eaton Intermediate School District Career Preparation Center is to enhance a student's high school curriculum by providing an opportunity to learn a technical trade and/or to obtain a head start on a post-secondary education.

All students completing an Eaton Intermediate School District's Career Center program at Lansing Community College **have the opportunity** to earn either direct or articulated college credit while completing their high school program if specific criteria are met.

LCC credit is awarded to a student who: a) completes the high school career and technical education course with a minimum of a "C" average; b) meets the performance objectives for a specific Lansing Community College course; and, c) passes the college course final examinations, if one is required. These credits are shown as numerical grades on the student's LCC transcript. Transcripts may be requested through Lansing Community College Enrollment Services Department by August following course completion.

The courses listed below show the possible LCC college credits that may be available to high school students taking an EISD Career Preparation Program.

## COMPUTER GRAPHICS/WEB DESIGN

### **ARTS 102      Design & Communication      3 LCC Credits**

An examination of visual communication theory, process and history. Students will study the universal elements and principles of two-dimensional design and their application in monochromatic, color, still, and time-based media.

### **ARTS 171      Computer Graphics/Digital Imaging      3 LCC Credits**

An introduction to computer manipulation of photographic images. Topics covered include resolution, scanning, output, file formats, retouching, color correction, and compositing.

### **ARTS 173      Computer Graphics/Web Design      3 LCC Credits**

A course in the effective visual presentation of ideas for the web from concept and design to structure, preparation and production. Focus on the elements and principles of design as applied to layout, graphics and animation.