# LCT  CPE Computer Training

**LCT 0054 Web Maintenance and Management (2-0)**       **2 crs.**
Teaches essential web page development skills and how to work as a productive member of a website development team. Develops websites using Hypertext Markup Language version 5 (HTML5) and Cascading Style Sheets (CSS). Teaches writing code manually, as well as use graphical user interface (GUI) authoring tools. Use Application Programming Interfaces (APIs) to extend functionality of web pages. Validates HTML code and recognize the importance of search engine optimization (SEO). Demonstrates how websites are developed as managed projects and identifies e-commerce solutions.
**Recommended:** Intermediate computer user skills and knowledge of internet concepts.

**LCT 8003 Web Coding Boot Camp (0.5-0)**       **0.5 crs.**
Explores the basics of web design and web development skills including HTML, CSS, JavaScript, and jQuery. Demonstrates how they are used together on a website. This course will be offered as an intensive one-week class.

**LCT 8095 Conducting An Online Job Search (1-0)**       **1 cr.**
Introduces the use of computer, digital and information literacy skills in the workplace. Focuses on familiarizing learners with very basic keyboarding functions and word processing. Covers components of the Web and accessing a website using a browser. Develops critical thinking skills through evaluating online sources of information, comparing styles of communication as well as group problem-solving and discussion. Includes topics such as work readiness skills, workplace communication, the job search and interview process and career preparation.

**LCT 8100 Workplace Computer Skills (1-1)**       **1.5 crs.**
Introduces the use of computer, digital and information literacy skills in the workplace for Continuing Professional Education students. Focuses on familiarizing learners with very basic keyboarding functions and word processing. Introduces components of the Web and accessing a website using a browser such as Internet Explorer or Google Chrome. Develops critical thinking skills by evaluating online sources of information, comparing styles of communication and group problem-solving and discussion. Includes work readiness skills, workplace communication, job search and interview process and workforce/career preparation.

**LCT 8101 Graphic Arts Fundamentals (2-2)**       **3 crs.**
Teaches the fundamentals of the graphic arts industry. Uses industry based software to create professional layouts for print media. Introduces basic operations of Adobe Photoshop, Illustrator and InDesign will allow for the hands-on development of documents. Explores graphic arts workflow, various printing methods, typography, design elements, color management and the many career possibilities the industry has to offer.

**LCT 8103 Digital Imaging I (2-2)**       **3 crs.**
Covers fundamentals of professional image-editing software (Adobe Photoshop). Emphasizes skills to manipulate photos using current software tools and special effects filters. Explores program tools, color correction, channels, layers and masks. Strong computer skills are required for success in this course. Upon request this course can be converted to college credit for course GRA103.

**LCT 8350 Foundations of Data Analysis (1-0)**       **1 cr.**
Covers essential skills in data analytics and lays the groundwork for exploring and implementing advanced big data technologies. Delves into potential career trajectories and explores the existing education and certification pathways available in the field of data analytics.

**LCT 8400 Predictive Analytics Using Big Data (1-0)**       **1 cr.**
Understands how the growth of smart devices and the huge data they generate, along with the significant increase in the ability of computers to digest and learn from data, has led to Predictive Analytics becoming a critical area of focus for most businesses. Explores the three dimensions of Predictive Analytics. Studies technology (databases, query languages, R language, architectures) and statistical techniques of Big Data Analytics. Learns the statistical techniques underpinning Predictive Analytics, such as regression and correlation. Applies Predictive Analytics to a real-life domain situation.
**Recommended:** Basic understanding of statistics, databases and data management.

**LCT 8600 Introduction to R Programming (1-0)**       **1 cr.**
Teaches R programming, an open source programming language and software environment for statistical computing and graphics that allows data analysis and visualization to help build predictive models. Students will define a predictive problem to study using data in R. Also teaches R commands while studying the predictive problem, and applies different predictive problems in an individual case study.
**Recommended:** Some understanding of data analysis, programming is not a prerequisite.