

# Minnesota State College Southeast

## COMC 1745: Web Design and Technologies II

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite

COMC 1741 - Web Design, HTML, CSS

Corequisites: None

MnTC Goals: None

In this course, students will research, plan, design, implement, and evaluate web sites using a variety of technologies. Iterative design, responsive/mobile design, web server setup and administration, content management systems, cloud services, source control, continuous delivery, and social media integration will be covered. (Prerequisite: COMC1741) (3 credits: 2 lecture/1 lab)

**B. COURSE EFFECTIVE DATES:** 04/01/2010 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. Perform basic site design research and information gathering
  - a) Determine purpose and goals of site
  - b) Determine target audience
  - c) Determine types of content and services
2. Perform site planning
  - a) Develop scenarios
  - b) Create site map
  - c) Determine required technologies
3. Create site design
  - a) Determine fonts, colors, logo, etc.
  - b) Select images
  - c) Create page mock-ups
  - d) Perform review cycle
4. Perform site development
  - a) Configure version control system
  - b) Configure development environment (content mgt, ASP framework, etc.)
  - c) Create page templates
  - d) Create navigation system
  - e) Add content
  - f) Develop animations, interactivity, web applications
5. Perform site testing and cross-browser testing
6. Cloud-based server configuration
  - a) Install and configure virtual machine operating system
  - b) Install and configure vm-based web server
  - c) Configure cloud-based web server
7. Perform site launch
  - a) Use continuous delivery technologies
  - b) Perform testing
8. Determine and configure site security features
9. Install and configure content management system
10. Populate content management system information
11. Determine required social media features
12. Integrate social media features
13. Display professional attitude

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted