A. **TITLE:** Web Page Development

B. **COURSE NUMBER:** CITA 111

C. **CREDIT HOURS:** 2

D. **WRITING INTENSIVE COURSE (OPTIONAL):** N/A

E. **COURSE LENGTH:** Semester (15 weeks)

F. **SEMESTER(S) OFFERED:** Fall/Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   Two lecture hours per week with occasional lab and coding projects.

H. **CATALOGUE DESCRIPTION:** This course will introduce students to the development process of web pages. The student will learn how to create and edit text (HTML) with a web authoring tool. They will learn how to use a draw/graphics software program to create, edit and use various types of graphic images (.GIF & .JPEG) to help maintain the “surfer’s” interest. The student will learn how to setup and maintain hyperlinks to various sites and within the original document. Also, the student will learn how to create and use tables, image maps, thumbnails and animated GIFs.

I. **PREREQUISITE/CO-REQUISITE COURSES:**
   a. Prerequisites
      • Introduction to World Wide Web (CITA 103) or
      • Permission of the instructor.
   b. Co-requisites: None.

J. **GOALS (STUDENT LEARNING OUTCOMES):**
   Upon completion of the course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tbody>
<tr>
<td>1. Define HTML and why it is used.</td>
<td>3. Professional Competence</td>
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<tr>
<td>2. Describe what you can and cannot do when you design HTML documents.</td>
<td>1. Communication</td>
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<td></td>
<td>3. Professional Competence</td>
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<td>3. Recognize commonly used HTML tags and how to use them.</td>
<td>3. Professional Competence</td>
</tr>
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<td>4. Demonstrate how to link to other documents on the local disk using relative and absolute path names and to other documents on the WWW using URLs.</td>
<td>3. Professional Competence</td>
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<td>5. Demonstrate how to create various types of lists, format the appearance of individual characters, and create other miscellaneous elements including line breaks, rule lines, addresses, and quotations</td>
<td>3. Professional Competence</td>
</tr>
<tr>
<td>6. Distinguish among kinds of images available for use, and how and when to include them on your page and use them as clickable links.</td>
<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<tr>
<td>7. Describe how to organize a WWW document, various issues concerning design and layout, and when and why to create links.</td>
<td>3. Professional Competence</td>
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<tr>
<td>8. Demonstrate how to create basic form input elements: text fields, radio buttons, check boxes and buttons for submitting and clearing the form.</td>
<td>3. Professional Competence</td>
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K. **TEXTS:**
   
   *The Complete Guide to Using and Understanding the Internet*. Linda Bird

L. **REFERENCES:** Online resources selected by the instructor

M. **HARDWARE:** The course requires a computer lab and will use existing equipment and networks already installed in the lab.

N. **GRADING METHOD:** A-F

O. **MEASUREMENT CRITERIA/METHODS:** Assignments and/or examinations

P. **DETAILED TOPICAL OUTLINE:**

   I. Understanding Web Browsers and Hypertext
      A. Using Multiple Web Browsers
      B. Understanding Hypertext Markup Language (HTML)

   II. Creating Simple Web Pages
      A. Begin with the Basics
      B. All About Links
      C. Text Formatting with HTML

   III. Web Graphics
      A. Using Images, Color and Backgrounds
      B. Creating Animated Graphics (GIF Construction Set)
      C. Creating and Using ImageMaps (client side image map)

   IV. Doing More with HTML
      A. Style Sheets
      B. Tables
      C. Frames and Linked Windows

   V. Multimedia and Forms
      A. Multimedia: Adding sounds, video, etc.
      B. Designing Forms

   VI. Designing Effective Web Pages
      A. Writing and Designing Web Pages: Do’s and Don’ts Examples of Good and Bad Web Design

Q. **LABORATORY OUTLINE:** n/a