WINONA STATE UNIVERSITY
PROPOSAL FOR NEW COURSES

Department ___________________________ Date __2/15/05_____________________

Course No. ___________________ Course Name ______________________ Credits _______

Web Technology ________________ 3

This proposal is for a(n) _____ Undergraduate Course  ______ Graduate Course

Applies to: ______ Major  ______ Minor  ____ University Studies*

____ Required  ______ Elective  ____ University Studies*

____ Required  ______ Elective

Prerequisites ________________________________________________________________

Grading method _____ Grade only  _____ P/NC only  ___ Grade and P/NC Option

Frequency of offering  __Every semester and summer session____

*For University Studies Program course approval, the form Proposal for University Studies Courses must also be completed and submitted according to the instructions on that form.

Provide the following information (attach materials to this proposal):

A. Course Description

1. Catalog description.
2. Course outline of the major topics and subtopics (minimum of two-level outline).
3. Basic instructional plan and methods.
4. Course requirements (papers, lab work, projects, etc.) and means of evaluation.
5. Course materials (textbook(s), articles, etc.).
6. List of references.

B. Rationale

1. Statement of the major focus and objectives of the course.
2. Specify how this new course contributes to the departmental curriculum.
3. Indicate any course(s) which may be dropped if this course is approved.

C. Impact of this Course on other Departments, Programs, Majors, or Minors

1. Does this course increase or decrease the total credits required by a major or minor of any other department? If so, which department(s)?
2. List the departments, if any, which have been consulted about this proposal.

D. University Studies Course Proposals

The form Proposal for University Studies Courses must also be completed and submitted according to the instructions on that form.

Attach a Financial and Staffing Data Sheet.

Attach an Approval Form.

Department Contact Person for this Proposal:

____Tim Gegg-Harrison____________________________ x5381 __ tgeggharrison@winona.edu_____
Name (please print)  Phone  e-mail address
A. Course Description

1. Catalog description.

CS 116 – Web Technology  3 S.H.
An introductory, hands-on course on internet web site development. The emphasis is for students to develop competence using web authoring tools and tools for incorporating multimedia into a web page in order to build a complex web site focused on some area of academic interest. Students will learn how to plan and publish web sites and develop electronic portfolios that are exciting, efficient, accessible, and well-designed. Students will gain insight into the technology behind the World Wide Web by working with the HTML web markup language and the Javascript web programming language. No prior programming experience is necessary for this course.

2. Course outline of the major topics and subtopics (minimum of two-level outline).

   I. Web page overview
      i. Designing effective web pages and web sites
      ii. Making web pages accessible
      iii. Electronic portfolios
      iv. Web page maintenance (Contribute)

   II. HTML
      i. Tags (<script>, <form>, <input>, visual markup)
      ii. XHTML compliancy
      iii. Forms
      iv. Cascading Style Sheets (CSS)

   III. Web Authoring Tools (e.g., Dreamweaver)
      i. File management
      ii. Creating pages
      iii. Creating and embedding rollover buttons
      iv. Creating and organizing navigation structure for a web site

   IV. Graphics Editing Tools (e.g., Fireworks)
      i. Editing photos/graphics
      ii. Creating buttons
      iii. Creating animations

   V. Animation Creation Tools (e.g., Flash)
      i. Using the timeline, frames, and layers
      ii. Using buttons, actions, and sounds

   VI. Javascript
      i. Variables, numeric values and operators, strings, assignment statements
      ii. Functions, parameters, and return values
      iii. Conditional and looping statements
      iv. Event handlers

   VII. Impact of Web Technology on Society
      i. Web history
      ii. Ethical issues, including copyright requirements
      iii. Web applications, e.g., E-Learning, E-Business, search engines

3. Basic instructional plan and methods.

This class will be taught in a laptop classroom with heavy emphasis on hands-on lab work. The majority of the in-class lab work will be done collaboratively, although some independent project work will be assigned. The instructor will present new concepts along with examples and then students will work collaboratively on additional examples that are provided.

4. Course requirements (papers, lab work, projects, etc.) and means of evaluation.

The primary form of evaluation for this course will be a major term-project and a set of smaller projects. The class will also include 1-2 exams and a presentation of the final project. The following outlines further details that will be available on the course syllabus:
Grading Distribution:

1. 6-10 small assignments (60%)
2. 1 term project (20%)
3. 2 Exams (20%)

Class Format:

This will be a "hands-on" class. Students will be required to bring their laptops to class and be expected to participate actively in class. Participation will include technology activities and also discussions. Required time out-of-class will include interacting with Web site "customers" and further practice of your Web skills.

Academic Dishonesty Policy:

Cheating is a deplorable act and it will not be tolerated in CS116 or any other class that I teach. Anyone who is caught cheating in this class will receive a grade of F for the class. Note also that, if you are caught cheating then you will not be permitted to withdraw from the class (i.e., the F will go on your permanent transcript).

Sample Assignments

**Assignment 1**

Create a site in your Final Projects Folder containing the following pages:

- Introductory page (HomePage.htm)
- Writing Samples (Writing.htm)
- Resume (Resume.htm)
- Projects (Projects.htm)
- Biography (Bio.htm)
- Comments (Comment.htm)

The Introductory page can have a slightly different look then the other pages. It must give an immediate impression of what the site is about and convey a particular navigation scheme that will be used throughout. It must also have a particular graphic identity that is carried over to the other pages.

The Biography page needs to have some sort of description of yourself and a photo that is linked to a larger version of the same photo or even a photo gallery. The smaller photo must be from those we took in class and must be resized accordingly.

The other pages can simply have the navigation scheme and a “coming soon” note.

All pages should have some sort of consistent navigation that will allow the user to move between the pages. Navigation should consist of images created in Fireworks and rollover behaviors.

The “Navigation.htm” page should be placed at the same level as the “FinalProject” and “Assignments” folder should have a links to the “Final Project” folder and to each of the “Assignments” subfolders.

**Assignment 2**

Use Dreamweaver to check the site in your Final Project Folder. Make sure it is XHTML transitional compliant, that there are no broken links, and that the orphaned files are appropriate.

Finish the “Comments.htm” page by adding a form that will allow users to send you an email with feedback about your site or about a particular page or item on your site. You can use Dreamweaver to create the form. The form needs to have the following fields: name, email, comment. The name field is optional, the email field must be filled in properly before it can be submitted, and you should check the comment to ensure it does not contain a “liberal bias” (i.e., contain any of the following words: peace,
compassion, community, open-minded, progressive). If a "liberal bias" exists, give the user some sort of appropriate feedback and ask them to retype their comments.

Formatting for ALL pages should be managed by an external stylesheet named “ePstyle.css.”

5. Course materials (textbook(s), articles, etc.).


6. List of references.


B. Rationale

1. Statement of the major focus and objectives of the course.

   The primary objective of this course is to provide each student with enough knowledge to effectively use the web in his/her area of academic interest. It is not the purpose of this course to produce computer scientists who will develop new Web technologies. Rather, this course is designed to take non-CS majors and make them effective users of web authoring tools and knowledgeable citizens about the how the Web impacts society and themselves.

2. Specify how this new course contributes to the departmental curriculum.

   Computer science is an extremely pervasive field of study. As such, the CS department has a duty to offer service courses that are useful to non-CS majors. The World Wide Web (WWW) surfaced in November, 1990. Now, fifteen years later, the WWW is becoming central to most aspects of everyone’s lives. It is the responsibility of the CS department to help provide computer application courses to students outside the CS department, including both non-CS WSU students and community education students.

3. Indicate any course(s) which may be dropped if this course is approved.

   None, this course serves a new need.

C. Impact of this Course on other Departments, Programs, Majors, or Minors

1. Does this course increase or decrease the total credits required by a major or minor of any other department? If so, which department(s)?

   This course is not required by any major or minor.

2. List the departments, if any, which have been consulted about this proposal.

   None.
Include a Financial and Staffing Data Sheet with any proposal for a new course, new program, or revised program.

Please answer the following questions completely. Provide supporting data.

1. Would this course or program be taught with existing staff or with new or additional staff? If this course would be taught by adjunct faculty, include a rationale.

   Existing staff will cover this new course.

2. What impact would approval of this course/program have on current course offerings? Please discuss number of sections of current offerings, dropping of courses, etc.

   Over the past 2-3 years, CS programs across the nation have seen declining enrollments. WSU is no exception. We currently have 2-3 CS major courses that no longer require multiple sections per semester. Thus, we now have the opportunity to offer 2-3 sections of this new course.

3. What effect would approval of this course/program have on the department supplies? Include data to support expenditures for staffing, equipment, supplies, instructional resources, etc.

   No impact.
### WINONA STATE UNIVERSITY
### APPROVAL FORM

Routing form for new and revised courses and programs.  
Course or Program: **CS 116**

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<thead>
<tr>
<th>Recommendation</th>
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<th>Disapproval</th>
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<td><strong>Dean’s Recommendation</strong></td>
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<td>Dean of College</td>
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<tr>
<td><strong>Academic Vice President Recommendation</strong></td>
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Please forward to Registrar.

Registrar:  
Date entered

Please notify department chair via e-mail that curricular change has been recorded.