

RECEIVED

SEP 16 2013

OFFICE OF THE
SENATE COUNCIL

1. General Information

1a. Submitted by the College of: COMMUNICATION AND INFORMATION

Date Submitted: 9/16/2013

1b. Department/Division: Library & Information Science

1c. Contact Person

Name: Will Buntin

Email: will.buntin@uky.edu

Phone: 859-257-3317

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Specific Term/Year¹ Fall 2013

1e. Should this course be a UK Core Course? No

2. Designation and Description of Proposed Course

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: ICT 638

2c. Full Title: Advanced Web Design

2d. Transcript Title:

2e. Cross-listing:

2f. Meeting Patterns

LECTURE: x

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 3

2i. Is this course repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester?

2j. Course Description for Bulletin: This course serves as a hands-on introduction to advanced web design techniques. Topics include the web development process, creating dynamic content, advanced layout and design, client-side and server-side scripting languages, graphic file types and optimization, web forms, multimedia, and web servers and databases.

2k. Prerequisites, if any: [ICT 636](#), or consent of instructor.

2l. Supplementary Teaching Component:

3. Will this course taught off campus? [No](#)

If YES, enter the off campus address:

4. Frequency of Course Offering: [Summer](#),

Will the course be offered every year?: [Yes](#)

If No, explain:

5. Are facilities and personnel necessary for the proposed new course available?: [Yes](#)

If No, explain:

6. What enrollment (per section per semester) may reasonably be expected?: [35](#)

7. Anticipated Student Demand

Will this course serve students primarily within the degree program?: [Yes](#)

Will it be of interest to a significant number of students outside the degree pgm?: [No](#)

If Yes, explain: [\[var7InterestExplain\]](#)

8. Check the category most applicable to this course: [Relatively New – Now Being Widely Established](#),

If No, explain:

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program?: [Yes](#)

If YES, name the proposed new program: [Information Communication Technology \(ICT\) Graduate Program](#)

b. Will this course be a new requirement for ANY program?: [No](#)

If YES, list affected programs:

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500?: [No](#)

b. The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from **10.a** above) are attached: [Yes](#)

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: [No](#)

Interactive Video: [No](#)

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|JTHU222|Jeffrey T Huber|Dept approval for ZCOURSE_NEW ICT 638|20130102

SIGNATURE|CEMONA2|E C Monaghan|College approval for ZCOURSE_NEW ICT 638|20130102

SIGNATURE|ZNNIKO0|Roshan N Nikou|Graduate Council approval for ZCOURSE_NEW ICT 638|20130318



ICT 638: Advanced Web Design

Instructor

TBD
320 Lucille Little Fine Arts Library
Lexington, KY 40506-0224
Phone: 859.257.8876 (administration)
Fax: 859.257.4205
Preferred method of contact: email

Office Hours

TBD and by appointment. Contact me via e-mail to schedule an appointment to meet: I will frequently respond as soon as possible, usually within 24 hours.

CLASS INFORMATION

This is an online class; there are no scheduled meetings. The Blackboard course management system will be used to facilitate the class. You will need access to an appropriate computer with a broadband Internet connection. Please visit <http://www.uky.edu/Blackboard/> to learn about this system and the login requirements.

COURSE INFORMATION

Course Description

This course serves as a hands-on introduction to advanced web design techniques. Topics include the web development process, creating dynamic content, advanced layout and design, client-side and server-side scripting languages, graphic file types and optimization, web forms, multimedia, and web servers and databases.

Prerequisites: ICT 636, or consent of instructor.

Student Learning Outcomes

After successfully completing this course, the student will be able to:

- Design and build a quality, dynamic website that can send data to and retrieve data from databases located on remote servers based on client input;
- Demonstrate effective use of HTML, CSS, PHP, and MySQL to build dynamic web pages;
- Emphasize the importance of website and database security and administration functions;
- Examine, analyze, and evaluate web sites for design, usability, and functionality;
- Identify and apply appropriate web standards and best practices;
- Show a greater understanding of the roles played by aesthetics and functionality in web design.

Course Overview

This course focuses on teaching students advanced web design concepts using Cascading Style Sheets (CSS), scripting languages, and databases. Students will gain hands-on experience developing a multi-page website. Focus is also placed on usability, accessibility, and web standards.

Topics to be covered:

1. Advanced web design and layout strategies using Cascading Style Sheets (CSS);
2. Client side scripting languages (JavaScript) and server-side scripting languages (PHP);
3. The MySQL database management system and methods of integrating these databases into a dynamic web application;
4. Incorporating graphics and multimedia content into websites.

Required Texts

David Sawyer McFarland, *CSS3: The Missing Manual*, O'Reilly Media, 3rd ed. (2012), ISBN: 1449325947.

David Powers, *PHP Solutions: Dynamic Web Design Made Easy*, friends of ED, 2nd ed. (2010), ISBN: 1430232498.

STUDENT EVALUATION

Grading Parameters

Assignments	30%
Quizzes	30%
Projects	30%
Participation	10%

Grading Policy

Class assignments are due on or by the due date noted on the individual assignments. Late assignments will only be accepted with prior approval from the instructor.

Assignments

Assignments will account for 30% of the overall course grade. These activities will focus on information that has been covered in your readings and will include homework assignments, practical exercises, and group work. The points associated with each assignment will vary depending on the skills and length of time involved. Assignments will be submitted electronically via Blackboard and are due by midnight on Sunday of the week indicated.

Exams

A minimum of eight quizzes will be administered representing 30% of your overall course grade. These may include multiple choice, true/false, matching, short answer, essay questions, and demonstration of coding skill. Quizzes will cover material discussed in class, assigned reading and research, and skills practiced in completing assignments.

Projects

The projects will allow you to practice the skills and techniques we cover throughout the semester. They will provide you with valuable hands-on experience creating websites using the many techniques and tools discussed in class. Projects will account for 30% of the overall course grade.

Participation

Students are expected to participate in and complete weekly discussion board topics to earn participation points. A weekly discussion forum will be initiated over the course of the semester, one discussion topic per week. You are required to make a post to each forum which will be graded out of ten (10) points on the basis of their quality. A quality post will include a substantive and thoughtful

Courses	Request Tracking
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New Course Form

<https://myuk.uky.edu/sap/bc/soap/rfc?services=>

[Open in full window to print or save](#)

Generate R

Attachments:

Upload File

	ID	Attachment
Delete	2223	638 Revised.pdf

First 1 Last

Select saved project to retrieve...

(*denotes required fields)

1. General Information

- a. * Submitted by the College of: COMMUNICATION AND INFORMATION Submission Date: 9/16/2013
- b. * Department/Division: Library & Information Science
- c.
- * Contact Person Name: Will Buntin Email: will.buntin@uky.edu Phone: 859-257-3317
- * Responsible Faculty ID (if different from Contact) Email: Phone:
- d. * Requested Effective Date: Semester following approval OR Specific Term/Year ¹ Fall 2013
- e. Should this course be a UK Core Course? Yes No

If YES, check the areas that apply:

- Inquiry - Arts & Creativity Composition & Communications - II
- Inquiry - Humanities Quantitative Foundations
- Inquiry - Nat/Math/Phys Sci Statistical Inferential Reasoning
- Inquiry - Social Sciences U.S. Citizenship, Community, Diversity
- Composition & Communications - I Global Dynamics

2. Designation and Description of Proposed Course.

- a. * Will this course also be offered through Distance Learning? Yes ⁴ No
- b. * Prefix and Number: ICT 638
- c. * Full Title: Advanced Web Design
- d. Transcript Title (if full title is more than 40 characters):
- e. To be Cross-Listed ⁵ with (Prefix and Number):
- f. * Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours³ for each meeting pattern type.
- | | | | |
|---|--|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> Lecture | <input type="checkbox"/> Laboratory ¹ | <input type="checkbox"/> Recitation | <input type="checkbox"/> Discussion |
| <input type="checkbox"/> Indep. Study | <input type="checkbox"/> Clinical | <input type="checkbox"/> Colloquium | <input type="checkbox"/> Practicum |
| <input type="checkbox"/> Research | <input type="checkbox"/> Residency | <input type="checkbox"/> Seminar | <input type="checkbox"/> Studio |
| <input type="checkbox"/> Other | If Other, Please explain: <input type="text"/> | | |
- g. * Identify a grading system: Letter (A, B, C, etc.) Pass/Fail Graduate School Grade Scale
- h. * Number of credits: 3
- i. * Is this course repeatable for additional credit? Yes No
- If YES: Maximum number of credit hours:
- If YES: Will this course allow multiple registrations during the same semester? Yes No

contribution to the discussion board topic. "I agree with the author" will not be deemed a credit-worthy response.

Grading Scale

- [90% – 100%] = A (Exceptional Achievement)
- [80% – 89%] = B (High Achievement)
- [70% – 79%] = C (Average Achievement)
- [0% – 69%] = E (Fail)

GENERAL COURSE POLICIES

Policies concerning academic integrity, excused absences and academic accommodations due to disability are available online at: <http://www.uky.edu/CIS/SLIS/academics/policies.pdf>

TECHNOLOGY INFORMATION & RESOURCES

Distance Learning Students are expected to have a minimum level of technological acumen and the availability of technological resources. Students must have regular access a computer with a reliable Internet connection and audio capabilities. Internet Explorer 7 (IE) or Firefox 2.x are the recommended browsers for those using a Windows-based PC. Those using Firefox 3.x may encounter problems with assignment uploads. Those using an Apple computer with MAC OS X (10.5.x) may use Firefox 3.x or Safari 3.x.

Please be certain that your computer and/or browser allow you to view Adobe Reader documents (.pdf). Microsoft Office and other software products are available free for students:

<https://iweb.uky.edu/MSDownload/>

Where to get Help

As your instructor, I am your first go-to person for technology problems. If you need more immediate assistance, please contact:

- Teaching and Learning Services Center (TASC)
<http://www.uky.edu/TASC/>
859-257-8272
- Information Technology Customer Service Center (UKIT)
<http://www.uky.edu/UKIT/>
859-257-1300

Library Services

- Distance Learning Services
<http://www.uky.edu/Libraries/DLLS>
Carla Cantagallo, DL Librarian
Local phone number: 859 257-0500, ext. 2171
Long distance phone number: (800) 828-0439 (option #6)
Email: dllservice@email.uky.edu
- DL Interlibrary Loan Service:
http://www.uky.edu/Libraries/libpage.php?lweb_id=253&llib_id=16
- Course Reserves
http://www.uky.edu/Libraries/page.php?lweb_id=23<ab_rank=3

COURSE SCHEDULE

Week 1	Introduction to advanced web design; review of HTML fundamentals.
Week 2	Creating CSS styles and style sheets; CSS selectors; inheritance. (McFarland Chs. 2-5, pp. 31-112)
Week 3	Formatting text; web graphics; margins, padding, and borders. (McFarland Chs. 6-8, pp. 113-224)
Week 4	Introduction to CSS layout; building float-based layouts. (McFarland Chs. 11-12, pp. 299-354)
Week 5	Positioning elements on a web page; site navigation. (McFarland Ch. 13, pp. 355-394; Ch. 9, pp. 225-243)
Week 6	Introduction to JavaScript. (McFarland Ch. 9, pp. 244-270)
Week 7	Introduction to PHP; writing PHP scripts. (Powers, Chs. 1-3, pp. 1-68)
Week 8	PHP includes; PHP forms. (Powers, Chs. 4-5, pp. 69-140)
Week 9	PHP file management. (Powers, Chs. 6-7, pp. 141-240)
Week 10	Multipage forms. (Powers, Ch. 9, pp. 243-278)
Week 11	Getting started with MySQL. (Powers, Ch. 10, pp. 279-302)
Week 12	Using PHP/MySQL to create and access databases. (Powers, Ch. 11, pp. 303-334)
Week 13	Managing content with PHP/MySQL. (Powers, Chs. 13-14, pp. 355-414)
Week 14	Using multiple database tables. (Powers, Chs. 15-16, pp. 415-459)
Week 15	Advanced CSS layout strategies.