



Your University of Choice

SYLLABUS FOR WEB PAGE DESIGN

Term: Fall 2015 (2015-1) (August 31 - December 12, 2015)

Course Number: CMIS 253X

Instructor: Mr. Darren Henderson

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Office Hours:

Monday	5:30 p.m. to 7:00 p.m.
Tuesday	2:00 p.m. to 3:30 p.m.
Thursday	2:00 p.m. to 3:30 p.m.
Arranged	call or e-mail to schedule

Instructor Background:

Education

- Master of Science in Electrical Engineering from Purdue University, West Lafayette, IN
 - Specialization in Communications and Signal Processing
 - Graduate coursework: Digital Communications, Digital Signal Processing, Image Processing, Computer Networks, and Estimation Theory
- Bachelor of Science in Engineering from Purdue University Calumet, Hammond, IN
 - Undergraduate coursework emphasis in mathematics and physics: Advanced Calculus, Partial Differential Equations, Complex Analysis, Advanced Analysis, Electromagnetic Field Theory, Optics, and Quantum Mechanics
 - Senior Project: Developed a prototype for a home security and convenience system with a speech synthesis capability. Wrote assembly language software for the Motorola HC11 microcontroller to control the system and interface with a Texas Instruments speech synthesis chip

Work Experience

- Calumet College of St. Joseph, Hammond, IN
 - Assistant Professor, Computer Information Systems
 - Courses taught include Computer Literacy, Business Microcomputer Applications, Applications in Databases: Access, Applications in Spreadsheets: Excel, Web Page Design, C++ Programming I and II, Hardware and Software Concepts, Systems Analysis and Design, and Data Communications and Networking Theory
 - Institutional Researcher
 - Since Spring 2007 term
 - Computer Services Department
 - Helped lay the groundwork for the school's existing computer network and services. Responsible for initially creating the faculty and staff e-mail accounts and for making the school's computers (faculty, staff, and 4th floor computer labs) Internet accessible. Duties involved Unix/Linux and Windows NT System Administration and TCP/IP Network Administration in support of DNS, DHCP, WWW, and e-mail services. Implemented an early firewall to protect the school's Univers database system from unauthorized access
- Ivy Tech State College, Valparaiso, IN

- Adjunct instructor in the Electronics Technology Department
- Courses taught: Circuits I and II, Solid State I and II, Digital Principals, Digital Applications, and Electricity for HVAC.

Publications/Presentations

- “Do Voter Registration Drives Increase Voter Turnout?” paper and presentation at the 65th Annual Meeting of the Midwest Political Science Association, Chicago, Illinois, April 12-15, 2007 with Dr. Tina Ebenger
- “Tailoring an MIS degree: incorporating current skills in an accelerated format” paper with Kurt Jordan and George Schaefer, Information Systems Education Conference (ISECON) 2006. (accepted/absentee)
- An Interdisciplinary Approach to Implementing Competency Based Education in Higher Education, Goodman, Henderson, Stenzel, Mellen Press, 2006 (ISBN 0-7734-5831-X)
- “The Zen of Competency-Based Education”, presented at the Higher Learning Commission (NCA), with Dr. Eileen Stenzel and Dr. Barbara Goodman, March 2004, Chicago, Illinois.

Research Interests

- Business Intelligence (PowerPivot, DAX), Ruby Programming, Web Programming (PHP/Laravel, Ruby on Rails), Software Engineering

Course Time: Mondays 7:00 p.m. – 10:00 p.m. **Room 418**

Course Description: This course will introduce students to the fundamentals of web page design and development through the core technologies of Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and Javascript. Students will use an HTML integrated development environment (IDE) and associated tools throughout the term. Students will also be introduced to the use of Adobe Photoshop for web-based image processing (as needed).

Prerequisite: CIS 115

Learning Outcomes/ Competencies:

Students in this course will:

- **Use the various HTML 5 elements/tags to create web page content**
- **Use a Web Browser to**
 - access Internet resources (e.g. documentation/tutorials/scripts) on Web page design concepts
 - preview Web page designs/HTML source code
- **Use HTML editors/tools to create web pages that contain**
 - text
 - bulleted and numbered lists
 - links
 - images
 - tables
 - forms
- **Use HTML and CSS validation tools** (*optional*)
- **Use external Cascading Style Sheets (CSS) to appropriately format and layout web pages**

- Apply “best practices” in Web page design and layout
- Use the Bootstrap front-end design framework (e.g. to layout web page content using the grid system, to layout form controls/elements, to add a navigation bar, to add drop-down menus)
- Use the jQuery Javascript framework and selected jQuery plug-ins (e.g. to add interactivity to a web page, to perform client-side form validation)
- Configure properly ftp client software to connect to a remote web server. Use ftp client software to manage files (e.g. upload, delete) on a remote web server (primary method)
- Acquire images from a digital library, from the Internet, from a scanner, and/or from a digital camera
- Use Adobe Photoshop for Web Graphics
 - understand the differences between vector-based images and bitmap images
 - understand the TIFF, PSD, JPG, and GIF file formats
 - convert an image to a different file format (e.g. TIFF → JPG)
 - determine an image’s dimensions (i.e. width and height) in an appropriate unit (e.g. pixels or inches)
 - work with color
 - sample a color from an image using the eyedropper tool
 - view a color’s RGB and hexadecimal values
 - crop an image
 - create optimized GIF and/or JPG images

Textbooks: (required)

New Perspectives on HTML and CSS, 6th ed., Introductory, Patrick Carey, Course Technology, Boston, MA, 2012. (ISBN10: 1-111-52648-6)

The textbook above in some form (physical or electronic) is required for many of the class exercises and/or homework assignments used in this course. Students wishing to pursue eBook and/or rental options can use the publisher website (cengage.com) or another vendor of your choice. Students not having “regular access” to a textbook risk falling behind on assigned class exercises and homework and thus subsequently place themselves in serious jeopardy of not passing this course.

Storage Media:

Students will need to use some form of **read/write storage** to work in-class on the assigned class exercises and to properly archive their completed work files. The best option is to use a portable **USB flash memory device**. The next best choice for students is to use a **cloud storage service** (e.g. Dropbox (www.dropbox.com), or Microsoft Windows Live SkyDrive (skydrive.live.com), or Google Drive (drive.google.com)).

The basic Dropbox service allows 2 GB of free online storage. The SkyDrive service allows 25 GB of free online storage. The Google Drive service allows 15 GB of free online storage. Remember, files saved to the **hard disk** (esp. My Documents and/or the Desktop) of a CCSJ laboratory computer will not generally survive AFTER logging out of the machine!

It is your responsibility to properly archive/back-up all electronic files corresponding to any class exercise or homework assignment. Failure to do so may mean that you need to repeat a class exercise or homework assignment.

Learning Strategies:

The course material will be presented and learned through a variety of *teaching methods* (including lectures, team/group activities and discussions, and instructor-led demonstrations). The teaching methods were chosen to actively engage the student in the teaching/learning process. Students will develop proficiency in Web Page Design and HTML by attending regularly and in actively participating in class activities.

Assessment:

The student’s final semester course grade is based on two assessment components: active participation in in-class *formative assessments* and by the results of end of semester *summative assessments*. The grade calculation uses the weights for the various components shown below.

Formative Assessments

Attendance/Class Participation	10%
Performance-Based Class Exercises/Homework	25%

Summative Assessments

Final Exam	25%
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Project

Semester Web Page Project Deliverables:

Planning Documents (e.g. proposal and storyboard)	5%
Web Site (i.e. according to course specifications)	35%

	100%

The course material consists of various web page design “tool” concepts/building blocks (e.g. links, styles, CSS, CSS for page layout, tables, forms). The chosen formative assessments help the student in building up their web page design toolkit. The final exam allows the student to demonstrate knowledge and application of the web page design concepts and best practices. The semester project allows the student to demonstrate mastery of the material by the development of a web site of their own concept and design incorporating the tool components that were learned throughout the semester. Therefore, the semester project in effect brings together in one product all of the web page building blocks.

Class Policy on Attendance/Class Exercises/Semester Project:

Regular **attendance** and active class participation is vital to success in this course. Regular attendance also keeps the student apprised of any important class announcements, any deviations from the course outline below and of any supplemental material presented.

Periodically throughout the term, performance-based **class exercises** will be given during the class session to reinforce the course concepts and material. The class exercises are intended as a formative learning experience for the student and are to be generally completed and reviewed by the instructor **in-class**. If class time does not permit the completion of the class exercise, then the student is expected to complete the assignment outside of class (i.e. homework). In situations where a thorough instructor review of a class exercise is not possible in-class, the instructor may review the class exercise outside of class and may send feedback to the students via CCSJ e-mail. This feedback may specify mandatory corrections that need to be implemented and received within the prescribed class exercise deadlines before full-credit is granted for the class exercise activity (usually one-point). Therefore, students not regularly checking their CCSJ e-mail (or monitoring the Blackboard online gradebook) may miss the email feedback and/or the class exercise deadlines. Students are required to submit class exercises to the instructor in **both hardcopy and electronic form**. Students will submit electronic versions to the instructor via Blackboard. Incomplete class

exercises will be assigned a score of zero if not fully completed to the instructor's satisfaction by the stated class exercise deadlines. The last day to be credited with completing an in-class exercise (i.e. including any mandatory corrections) will be two weeks from the date covered/assigned (unless directed otherwise).

This deadline policy is in-place to encourage the student to complete the web page design "tools/building blocks" represented by the class exercises and thus to allow the student a reasonable amount of uninterrupted time (i.e. at least two weeks) to finish work on their final semester project/web site.

Students will be required to complete a multi-page Web site as a final **semester project**. Further details on the project requirements and timetables will be given throughout the semester at the appropriate times. The deadline for submitting the semester project is **7:00 p.m. on Monday, December 7, 2015** (i.e. Week #15). Submissions after this deadline will NOT be considered for credit and will result in an assigned score of zero unless prior arrangements have been made with the instructor.

Class Policy for Exams:

The final exam is administered as a take-home exam. The exam is distributed in class on Monday, November 16, 2015 and is due in one week (on Monday, November 23, 2015). Students NOT handing-in the exam by the stated deadline will be penalized for being late. A final exam not handed-in within a reasonable period of time will be assigned a score of **zero**.

The final exam is comprehensive in content! The final exam consists of true/false, multiple choice, and fill-in-the-blank questions covering knowledge and application of web page design concepts, terminology, and best practices. The material is primarily based on the course textbook, but also covers content from class lectures and class exercises.

Class Policy on Academic Integrity:

Students are expected to submit their own independently created solutions to any and all class exercises, the take-home final exam, and the final semester web site project. Therefore, the sharing of computer solution files and/or the misrepresentation of someone else's work as your own is prohibited. Any students (i.e. both the sharer and the recipient) found violating this policy will be given a zero grade for that particular assignment or activity. Repeated violators of this policy are subject to further consequences including receiving a failing grade for the course.

Grading Scale:

A: 93-100	A-: 90-92	B+: 87-89	B: 83-86	B-: 80-82	C+: 77-79
C: 73-76	C-: 70-72	D+: 67-69	D: 63-66	D-: 60-62	F: 59 & below

Class Policy on Electronic Devices:

As a matter of courtesy to the instructor and to fellow students, cell phones, beepers, pagers, etc. are generally NOT to be answered in class and should be switched off BEFORE class begins. If it is absolutely necessary to receive a call during the class period, then the device should be placed in a "vibrate" mode and the student should answer the call outside the classroom so as to minimize disruptions to the learning environment.

Course Outline

Class Dates:		Topics/Assignments:
WEEK 1	8/31/2015	Syllabus/Course Policies CCSJ Computing Services CCSJ Network Login/CCSJ Web Mail/Blackboard Login My CCSJ Student Online Services, CCSJ Alerts <i>Introduction to Web Page Design Concepts and Theory</i>
WEEK 2	9/7	NO CLASS -- LABOR Day
WEEK 3	9/14	<i>Blackboard Introduction</i> Tutorial 1 – <i>Getting Started with HTML 5</i> <i>Class Exercise #1</i> Windows 7 File compression/extraction
WEEK 4	9/21	Tutorial 2 – <i>Developing a Web Site</i> <i>Class Exercise #2</i>
WEEK 5	9/28	Tutorial 3 – <i>Designing a Web Page with Cascading Style Sheets (CSS)</i> <i>Class Exercise #3</i>
WEEK 6	10/05	Semester Project Proposal Assignment Tutorial 4 – <i>Creating Page Layouts with CSS</i> <i>Class Exercise #4</i>
WEEK 7	10/12	Tutorial 5 – <i>Working with Tables and Columns</i> <i>Class Exercise #5</i>
WEEK 8	10/19	Semester Project Proposals Due Semester Project Guidelines <i>Tutorial - Page Layout Approaches (CSS templates, Bootstrap 3)</i> <i>Class Exercise #6</i>
WEEK 9	10/26	Tutorial - <i>Working with Web Forms</i> <i>Class Exercise #7</i>
WEEK 10	11/02	Tutorial – <i>CIS Web Server</i> <i>Class Exercise #8</i>
WEEK 11	11/09	Tutorial – <i>Introduction to jQuery</i> <i>Class Exercise #9</i>
WEEK 12	11/16	Final Exam (Take-Home) Distributed <i>Web Page Design Best Practices</i>
WEEK 13	11/23	Final Exam Due <i>Semester Project work/questions/troubleshooting</i>
WEEK 14	11/30	<i>Semester Project work/questions/troubleshooting</i>
WEEK 15	12/07	Semester Projects Due

Class Participation:

See "Class Policy on Attendance/Class Exercises/Semester Project" above

Keys to Success in this Course (and Others)

- Study (or at least skim read) **the textbook chapter and solved code examples** before class.
- Attend class regularly. On the rare occasions, you must miss class, then check Blackboard for what was covered in class (e.g. class handouts, class exercises).
- Arrive to class approximately 10 minutes before class starts. This allows you time to locate a computer station and successfully login by the time class is ready to start.
- Come to class prepared (course textbook; paper and pen or pencil to take notes; flash drive)
- Pay attention when your instructor covers the course material (i.e. software demonstration or otherwise). Take notes of the key points so that you can more easily reproduce it yourself later. It is more efficient for your instructor to explain something one time to a large group than to have to answer the same questions over and over again to individual students.
- Do your own class exercises and homework assignments. If I catch you “plagiarizing” on a class exercise or homework, you will be automatically assigned a zero grade. Plus, if someone else does your assignment, you learn nothing.
- Hand-in class exercises to the instructor sooner rather than later. This allows the instructor to give you valuable feedback on your progression with the material.
- Do not get behind on the class exercises! It is important that you learn the course material incrementally. Staying current with the class exercises will help you to do so. Also, if you miss handing in the finalized/corrected class exercises by the last day for credit (i.e. usually two weeks from the date covered/assigned) then you will receive zero scores for the given activities.
- Check your CCSJ email regularly (at least 2 or 3 times a week if not more often). If there is a problem with an assignment (e.g. class exercise), I will give you feedback via your CCSJ e-mail account. If you are not regularly checking your e-mail, you may miss these important notices and feedback on your progress in class.
- Check the Blackboard online grade book regularly. Make sure you are being properly credited when class exercises are reviewed or exams are graded.
- Get to know your classmates. When there is a class exercise, it is ok to help a fellow class mate if they are stuck (in fact at times it can be difficult for one instructor to adequately assist all students when there is a large class). However, there is a right way and a wrong way to help. The right way ensures that the person receiving the help can do the procedure/operation themselves perhaps after having it demonstrated to them.
- Come to class early (if the room schedule permits) if you need help from the instructor. There is some built-in lab time during the class period to receive help, but sometimes the little extra help can be beneficial.

Student Success Center:

The Student Success Center supports Calumet College of St. Joseph students through an interactive learning experience. Students work with faculty tutors to develop course competencies and study skills such as time management, test preparation, and note taking. In addition, students are provided with tutoring support to help pass courses, to improve grade point average, and to promote continuing education and career advancement. Tutors have a specific charge: to help students learn how to master specific subject matter and to develop effective learning skills. The Student Success Center is open to all students at Calumet College of St. Joseph at no charge and is available to support academic courses at the introductory and advanced levels. For assistance, please contact the Student Success Center at 219 473-4287 or stop by the Library.

Statement of Plagiarism:

If an instructor or other Calumet College of St. Joseph personnel find that a student has plagiarized or been involved in another form of academic dishonesty, the instructor or other personnel may elect to bring the

matter up for judicial review. The maximum penalty for any form of academic dishonesty is dismissal from the College. The procedures for judicial review are listed under the section of CCSJ handbook that addresses student grievances.

PLEASE NOTE: All papers can and may be submitted for checks on plagiarism from the Internet/Electronic sources/Databases.

Citation Guidelines:

Calumet College of St. Joseph uses citation guidelines, generally MLA or APA format, to document sources quoted or paraphrased in student papers. Check the syllabus for each course to see what each instructor requires. The Library has reference copies of each manual; the Bookstore has copies for sale when required by the instructor. In addition, there are brief MLA and APA checklists in your spiral "Student Handbook and Planner" and on the Library website and literature rack. These texts show how to cite references from many sources, including electronic media, as well as how to space and indent the "Works Cited" and "References" pages respectively. EBSCO and ProQuest articles provide both formats for you to copy and paste. Proper documentation avoids plagiarism.

Withdrawal from Classes Policy:

After the last day established for class changes has passed (see College calendar), students may withdraw from a course in which they are registered and wish to discontinue. A written request detailing the reason(s) for the withdrawal must be completed with the Office of Academic Advising and filed with the Registrar. The Office of Academic Advising must receive written request for withdrawal by the last day of classes prior to the final examination dates specified in the catalogue. Written requests should be submitted in person or, when an in-person visit is not possible, may be mailed to the Office of Academic Advising, emailed, or faxed to 219-473-4336. Students are to make note of the refund schedule when withdrawing from courses. If the request requires instructor approval per the College calendar, it must be forwarded to the faculty member, who makes the final determination to accept or deny the request.

If the request is honored by the faculty member, the student will receive notification of official withdrawal from the Registrar after meeting or speaking with a member from Academic Advising, Financial Aid and Athletics (if applicable). These departments will notify the student of academic, financial, and athletic eligibility effects of a possible withdrawal.

If the request is denied by the faculty member, the notification will indicate why the withdrawal is disallowed. Please note that if the request does not require instructor approval, the student must still meet or speak with a member from Academic Advising, Financial Aid and Athletics (if applicable) before the withdrawal will be processed.

An official withdrawal is recorded as a "W" grade on the student's transcript. Discontinuing a course without a written request for withdrawal automatically incurs an "FW" grade for the course (see Refund Schedule). Failure to Withdraw (FW) is indicated when the student does not complete withdrawal paperwork with the Office of Academic Advising nor does the student notify the instructor of their intent to withdraw due to an illness, accident, grievous personal loss, or other circumstances beyond the student's control. This grade is submitted by the instructor at the end of term.

Disability Services:

Disability Services strives to meet the needs of all students by providing academic services in accordance with Americans Disability Act (ADA) guidelines. Students must meet with the Coordinator of Disability Services to complete an intake form in order to request an accommodation and/or an auxiliary *aid* (e.g., *additional time for tests, note taking assistance, special testing arrangements, etc.*). It is the student's responsibility to contact the Academic Support Programs Office to request an accommodation at least one

month prior to enrollment for each academic term. Students who are requesting an accommodation and/or an auxiliary aid must submit documentation from a professional health care provider to verify eligibility under Section 504 of the Rehabilitation Act of 1973 and/or the Americans with Disabilities Act of 1990. The cost of obtaining the professional verification is the responsibility of the student.

If a student believes that he or she needs a "reasonable accommodation" of some kind because of a physical, psychological, or mental condition, he or she should contact Disabilities Services. The Coordinator will secure documentation pertinent to the disability and work with faculty and staff, if necessary, to address the matter. All questions and inquiries pertaining to disability services should be directed to the Disability Services Coordinator at 219-473-4349.

CCSJ Alert:

Calumet College of St. Joseph utilizes an emergency communications system that transmits messages via text, email, and voice platforms. In the event of an emergency, of weather related closings, or of other incidents, those students who are registered for the system shall receive incident specific message(s) notifying them of the situation. Please sign-up for this important service at any time on the College's website. Alternatively, you can register at the time you register for classes. This service requires each user to register once per academic year. Therefore, at the beginning of each academic year, please remember to re-register for the system. This can be done at: <http://www.ccsj.edu/alerts/index.html>.

School Closing Information:

CCSJ Alerts: An emergency communications system that transmits messages via text, email, and voice platforms. Please sign-up for this important service at any time on the College's website. This can be done at: <http://www.ccsj.edu/alerts/index.html>.

Internet: <http://www.ccsj.edu>
<http://www.EmergencyClosings.com>
Facility: Calumet College of St. Joseph
Phone: 219.473.4770

Radio:
WAKE – 1500 AM
WGN - 720 AM
WIJE – 105.5 FM
WLS – 890 AM
WZVN – 107.1 FM
WBBM NEWS RADIO 78

TV Channels:
2, 5, 7, 9, 32