INFO 151 - Web Systems and Services
Course Syllabus

Course Description:

This course introduces technologies used to build leading-edge application systems and services on the World Wide Web. Coverage includes a selection of Web components such as mark-up, style sheet, and scripting languages, as well as initial introduction on server components of Web applications. Introduces Web programming using individual, pair, or small team programming activities.

- Provides students with the fundamental concepts for designing, coding, testing, and deploying Client-side components of Web systems.
- Introduces programming concepts and activities by demonstration, example, and exercise.
- Addresses Client-side coding.

Prerequisites:

High school algebra and a familiarity with basic concepts for using a personal computer

Instructor Information:

Instructor: Bo Song, Ph.D.
Contact: bosong AT Drexel DOT edu
Office Hours: By appointment

Emailing requirement:

> Email serves as the best way to contact me. I always respond to my students' emails as soon as I can, or at least within 24 hours.

> Please make sure to include a concise and descriptive subject line in your email, starting with a **course and section number**.

> Email that do not follow the emailing requirements may end up in the spam folder or be overlooked before deleting with the spam.

> Example of proper email subjects : [INFO151-**900**] Question about xxx
>   or: [INFO151-**900**] Ask for xxx

Lecture Schedule:

INFO 151 - Section 900 - Online Asynchronous
        Lectures Materials will be posted in course shell system every week.

Textbook:

Essential and required materials of this course will come from provided **lectures slides**, **labs**, **code demonstrations**, **recommendations**, and from your own explorations at **W3Schools** (http://www.w3schools.com).

- A practical textbook is "**Murach's HTML and CSS**", Fifth Edition, by Zak Ruvalcaba and Anne Boehm.

- Another good backup book to elaborate on the introduced concepts is "**Internet&World Wide Web – How to Program**", Fifth Edition, by Deitel, Deitel, and Deitel

This course is web enhanced.

We will be using the course shell Drexel Blackboard Learn (Bblearn) for updated course lectures, materials and announcements. Please keep an eye on the course shell often to ensure you don't miss out lectures and anything important, especially the due dates of assignments.

- You should logon to Blackboard with the following url: **https://learn.dcollege.net**. You will find the course materials in the course shell.
- Use your DrexelOne Username and Password (All students must use their DrexelOne ID).

*Lectures provided may be streamed and/or recorded and rebroadcasted for educational purposes only.

Course Content:

- Programming Environments for Client-side Programming
- HMTL constructs
- Proper documentation techniques.
- Good online sources of help with HTML programming.
- CSS Styles and Cascading Style Sheets.
- JavaScript Concepts for applying functionality to web pages
- Programming environments for Server-side Programming

Course Outcomes:

Upon successful completion of this course, a student will be able to:
- Identify Programming Environments for Client-side Programming
- Construct a working web page using HMTL constructs:
    - Headings
    - Hyperlinks
    - Images

- Horizontal Rules
- Special Characters
- Various Types of Lists
- Forms
- iFrames
- Windows
- Apply proper documentation techniques.
- Identify good online sources of help with HTML programming.
- Format Web Pages using CSS Styles and Cascading Style Sheets.
- Utilize JavaScript Concepts for applying functionality to web pages:
  - Built-in and User-Defined Functions
  - Operators
  - Variables
  - Data Types and Conversion Functions
  - String Manipulation
  - Arrays
- Work with programming environments for Server-side Programming
  - Servers
  - Languages
  - PHP Constructs

Tentative Course Schedule:

Week - Date	Topics	Reading
1 –	Introduction to Client-Server Programming	Week 1 Lecture and reading
2 –	HTML I	Week 2 Lecture and reading
3 –	HTML II	Week 3 Lecture and reading
4 –	Cascading Style Sheets I	Week 4 Lecture and reading
5 –	Cascading Style Sheets II	Week 5 Lecture and reading
6 –	**Exam 1**	
7 –	JavaScript I	Week 7 Lecture and reading
8 –	JavaScript II	Week 8 Lecture and reading
9 –	iFrames and Windows	Week 9 Lecture and reading
10 –	Introduction to Server Side Programming	Week 10 Lecture and reading
11 –	**Exam 2**	

Attendance:

Lectures in this course is delivered Online and are Asynchronous. Your prompt participation will be reflected in your timely submission of assignments, quizzes, exams, etc. These **will significantly contribute to your class participation score.**

You will also get the most out of this online course only if you properly schedule your time to keep pace with and complete each lecture released every week, as well as complete before the due for the assigned exercises, labs, and quizzes which are provided to help reinforce your learnings.

Please don't hesitate to reach out promptly if you need assistance during your learnings on any of the course materials provided. I'm here to help you. Remember, there are no stupid questions or comments.

Assignments:

There will be a series of assignments given during this course. Assignment due dates are real. Do not miss the due date of any assignment!

You must submit assignments electronically via Bblearn **no later than 11:59pm** on the due day indicated by instructions.

You should begin working on an assignment as soon as it is released, so to seek assistant early if needed, instead of waiting until the last minute which leaves you little time for a good outcome and score. If you have a legit reason for not being able to submit on time, reach out to explain with proof beforehand, **NOT** after the deadline.

I reserve the right not to accept late assignments.

Be sure you know how to make successful submissions in Bblearn. **Always keep your receipts from submitting assignments!** A handy way to do this is just make a print screen (screenshot) of the receipt and dump it into a Word Document. That way, you will always have proof of your on-time submission when it is requested!

Besides the programming language script files (e.g. xxx.html, yyy.css, zzz.js etc.), all report/document should be submitted in Word Document (i.e. www.docx).

Required file **naming conventions** for all submissions: properly name your file as follows:

> **INFO151-section#**_AssignmentName_**yourDrexelEmailid.xxx**   (xxx is the placeholder for appropriate file extension).
>> For example,   INFO151-900_AIS_abc123.docx,   or/and
>> INFO151-900_HW2_xyzw98.zip,

Grading:

50% - Assignments
25% - Class Participation and Quiz
25% - Exams 1 and 2

The Exams must be taken on the days given. **Missing them will result in a grade of 0.**

Only in the event of extreme circumstances will you be permitted to take the exam at another time. If you cannot present for the exam, you must contact me prior to the exam being given regarding the reason for your absence. I will then evaluate the legitimacy of your situation.

Under normal conditions, the following scale will be used to convert the weighted total score into a final letter grade:

100	A+
93-99	A
90-92.99	A-
87-89.99	B+
83-86.99	B
80-82.99	B-
77-79.99	C+
73-76.99	C
70-72.99	C-
67-69.99	D+
60-66.99	D
59.99	F

CHEATING

Please read Drexel University's academic honesty policy at University website and in Appendix A below. Be aware that no form of plagiarism or cheating will be tolerated in this class. **Please be sure you understand the following rules:**

1) Individual work MUST be done solely by your own.

2) Lab work may be done together with your teammate, not in bigger groups. The team project (if applicable) is to be done together with your teammate, not in bigger groups.

3) **Any assignment (individual or team) must be done independently or within your own team without helps from other individual or teams. Be aware that you will develop a coding "fingerprint." If you or your team borrows code from another individual or teams, there is a good chance that I will pick up on it. If this happens, all students on both sides will be held responsible. Code must be your or your team's own interpretation of the correct path to a solution.   Any infraction of this rule will result in the maximum penalties for cheating, including the fact that I will report the infraction to the Ethics Committee**. The reason for this is that there is a certain amount of work you have to figure out on your own to properly learn

how to do this work. You won't learn much by just attending class and passing code files around from one to another.

4) If there is a team work, you must work with your teammate right after your team is assigned. If you are having trouble with a teammate, I must know about it immediately. Waiting until deep into the quarter before you tell me about a problem with a teammate is a very bad idea. You will lose ground you can't make up. I see this all the time. Do NOT make this mistake.

By the new college rule imposed by the Dean to raise awareness about academic dishonesty and reduce cases of academic dishonesty in the College, each student must sign the following statement at the beginning of the term and return to me.

Before signing this certificate, you should study the items relating to academic integrity in this syllabus and in the Instructor's Welcome.

*The Academic Integrity Statement (AIS) form **will be released in the first class** for you to sign and submit through Bblearn course shell. It will be the prerequisite for any of your other assignments that could be graded.*

Below is an example of AIS form:

Academic Integrity Certification

I certify that my work in this course will be entirely my own work. I will not quote the words of any other person from a printed source or a website without indicating what has been quoted and providing an appropriate citation. I will not submit my work in this course to satisfy the requirements of any other course.

Name/Signature: _____

Date: _____

APPENDIX A

Academic Integrity Policy

http://www.drexel.edu/provost/policies/academic_dishonesty.asp

Academic Dishonesty
- Academic Misconduct
- Cheating
- Fabrication
- Plagiarism
- Withdrawal of a Degree

Academic Misconduct

Academic misconduct includes other academically dishonest acts such as tampering with grades or taking part in obtaining or distributing any part of an administered or unadministered test. Examples include, but are not limited to:

- Stealing, buying, or otherwise obtaining all or part of an administered or unadministered test
- Selling or giving away all or part of an administered or unadministered test including questions and/or answers
- Bribing any other person to obtain an administered or unadministered test or any information about the test;
- Entering a building or office for the purpose of changing a grade in a grade book, on a test, or on other work for which a grade is given
- Changing, altering, or being an accessory to the changing and/or altering of a grade in a grade book, on a test, a "change of grade" form, or other official academic records of the University that relate to grades
- Entering a building or office for the purpose of obtaining an administered or unadministered test
- Continuing to work on an examination or project 52 Drexel University Official Student Handbook 2005-2006 after the specified allotted time has elapsed
- Any buying or otherwise acquiring any theme report, term paper, essay, computer software, other written work, painting, drawing, sculpture, or other scholastic art work, and handing it in as your own to fulfill academic requirements
- Any selling, giving, or otherwise supplying to another student for use in fulfilling academic requirements, any theme, report, term paper, essay, computer software, other written work, painting, drawing, sculpture, or other scholastic art work

Cheating

Cheating is an act or an attempted act of deception by which a student seeks to misrepresent that he or she has mastered information on an academic exercise that he/she has not mastered. Examples include, but are not limited to:

- Copying from another student's test paper
- Allowing another student to copy from a test paper
- Unauthorized use of course textbook or other materials, such as a notebook to complete a test or other assignment from the faculty member
- Collaborating on a test, quiz, or other project with any other person(s) without authorization
- Using or processing specifically prepared materials during a test such as notes, formula lists, notes written on the students clothing, etc. that are not authorized
- Taking a test for someone else or permitting someone else to take a test for you

Fabrication

Fabrication is the use of invented information or the falsification of research or other findings. Examples include, but are not limited to:

- Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials
- Listing sources in a bibliography not used in the academic exercise
- Submission in a paper, thesis, lab report, or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence
- Submitting as your own written work, printing, sculpture, etc. prepared totally or in part by another

Plagiarism

Plagiarism is the inclusion of someone else's words, ideas, or data as one's own work.When a student submits work for credit that includes the words, ideas, or data of others, the source of that information must be acknowledged through complete, accurate, and specific references, and, if verbatim statements are included,

through quotation marks as well. By placing his/her name on work submitted for credit, the student certifies the originality of all work not otherwise identified by appropriate acknowledgments. Plagiarism covers unpublished as well as published sources. Examples of plagiarism include, but are not limited to:

- Quoting another person's actual words, complete sentences or paragraphs, or an entire piece of written work without acknowledgment of the source
- Using another person's ideas, opinions, or theory, even if it is completely paraphrased in one's own words without acknowledgment of the source
- Borrowing facts, statistics, or other illustrative materials that are not clearly common knowledge without acknowledgment of the source
- Copying another student's essay test answers
- Copying, or allowing another student to copy, a computer file that contains another student's assignment, and submitting it, in part or in its entirety, as one's own
- Working together on an assignment, sharing the computer files and programs involved, and then submitting individual copies of the assignment as one's own individual work

Students are urged to consult with individual faculty members, academic departments, or recognized handbooks in their field if in doubt regarding issues of plagiarism.

Withdrawal of a Degree

The University reserves the right to withdraw a degree even though it has been granted should there be discovery that the work upon which it was based or the academic records in support of it had been falsified. In such a case the degree will be withdrawn promptly upon discovery of the falsification.

http://www.drexel.edu/studentlife/community_standards/facultyStaff/integrity/

General Procedures – Academic Integrity Cases

The information below can be found in the Student Handbook.

When a student is suspected of violating academic integrity standards, the faculty member will, as soon as reasonably possible, take the following actions:

1. Preserve all documentation and material relevant to the case
2. Consult with the department head or designee, or other if the reporter is the department head.
3. Notify the student of the suspected infraction and the faculty member's intention to submit a complaint, and seek the student's explanation.
4. Undertake any further investigation the faculty member considers appropriate, and initially determine whether a violation of the Academic Integrity policy has occurred.
5. a. If the student agrees a violation has occurred, the faculty member will inform the department head or designee, program director, or equivalent administrator (hereafter referred to as department head) offering the course of the alleged violation, and the violation will be referred **via the on-line reporting form** to the Office of Student Conduct and Community Standards with an appropriate sanction.
   b. If the student disagrees that a violation has occurred, the faculty member will require the student to meet with the department head who will make a final determination whether a violation of the Academic Integrity policy has occurred.
6. If, based on the information presented by the faculty member, the student, and with the results of any further investigation the department head may undertake, the department head agrees that an academic integrity infraction has occurred, the department head and faculty member will determine the appropriate sanctions and inform the student of their

decision. The violation will be referred **via the on-line reporting form** to the Office of Student Conduct and Community Standards with an appropriate sanction.

Any Academic Integrity violation beyond a first offense is subject to the sanctions determined by the academic department as well as to disciplinary sanctions that may be imposed through the University conduct process as administered through the Office of Student Conduct and Community Standards. These sanctions may include suspension or expulsion from the University and are subject to an appeal process described in the Student Handbook.

All cases of academic dishonesty will be communicated to the Office of Student Conduct and Community Standards. Interpretation of this information as it relates to alleged violations of the Drexel University Academic Integrity policy are left to the discretion of the faculty member, department head, dean of the college, and Provost. Students are strongly encouraged to request that the faculty member specify his/her individual expectations prior to the commencing of projects and/or assignments. Consultation and advice are available through the Office of Student Conduct and Community Standards.

Sanction Guidelines for Violating the Academic Integrity policy
First/all violations:

If an act of academic dishonesty is determined to have occurred, one or more of the following sanctions will be imposed, depending on the severity of the offense:

- Reduction of a course grade.
- An "F" for the assignment or exam.
- Failure for the entire course
- Other action deemed appropriate by the faculty member
- Any of the above sanctions with the inability to withdraw.

Examples of other action deemed appropriate include, but are not limited to, requiring the student to re-take the exam, re-complete an assignment, or complete an assigned exercise. The decision of the faculty member and the department head shall be reported to the Office of Student Conduct and Community Standards, which is responsible for maintaining student conduct records. The incident will result in an official disciplinary record for the student(s).

Second violation:

Suspension or expulsion, in addition to any sanction issued from the list above.

A violation of the Academic Integrity policy discovered after the conferral of a degree is grounds for Withdrawal of (Rescind) Degree.

Q: What happens to the student's conduct file?
A: As stated in the Student Handbook:

"All student conduct records are kept in accordance with the Family Education Rights and Privacy Act of 1974 (FERPA) and the Clery Act (1990). Subject to the provisions and exceptions of FERPA, all student conduct files are private. Files may only be reviewed in the presence of the Assistant Dean of Student Conduct and Community Standards or designee. Nothing may be removed, added, or copied.

The University will retain physical student conduct records (non-Clery) for resolved cases **for one year after the graduation of the student or one year after the expected graduation for inactive students**. The University reserves the right to keep records for a longer period of time if unresolved or deemed necessary. In cases of expulsion, the University will retain records indefinitely."

APPENDIX B

Other Academic Resources and Policies

This course follows university, college, and department policies, including but not limited to:

- Academic Honesty
http://www.drexel.edu/provost/policies/academic_dishonesty.asp

- Academic Integrity Policy https://drexel.edu/studentlife/community_standards/code-of-conduct/academic-integrity-policy/

- College Conduct Policy https://drexel.edu/cci/current-students/policies/

- Course Drop Policy

In accordance with Drexel's course drop policy, located at
https://www.drexel.edu/provost/policies/course_drop.asp, students may only drop
this course during the "drop period" lasting from the beginning of the enrollment
period through the end of the first week of the quarter. Dropping the course will
result in the course being removed from the student's academic record without the
course or a grade of "W" appearing on the transcript.

- Incomplete Policy

Incomplete grades are contingent upon instructor approval and will only be
considered in extenuating circumstances beyond the student's control. The
instructor is under no obligation to offer an incomplete grade. At least 70% of the
graded coursework must have already been completed in order for an incomplete
grade to be considered (per the recommendation of the Provost's Office). An
incomplete contract with an instructor-determined due date for delivery of the
completed work must be completed by the student and the instructor. It can be
found here: http://www.drexel.edu/provost/policies/pdf/forms/incomplete.pdf.

- Course Withdrawal Policy http://drexel.edu/provost/policies/course-
withdrawal/

- Syllabus or Course Changes

The instructor(s) may, at his/her/their discretion, change any part of the course
before or during the term, including assignments, grade breakdowns, due dates,
and schedule. Such changes will be communicated to students via the course web
site. This web site should be checked regularly and frequently for such changes
and announcements.

- Student Handbook
http://www.drexel.edu/studentlife/community_standards/facultyStaff/integrity/

- Drexel Student Learning Priorities
http://drexel.edu/provost/assessment/outcomes/dslp/

Students with Disabilities

If you have any type of a disability that will interfere with your participation and
comprehension in this class, or with completion of the assignments, please
contact the Office of Disability Services as soon as possible. Students with
disabilities requesting accommodations and services at Drexel University
need to present a current Accommodation verification letter (AVL) to the
instructor before accommodations can be made. AVL's are issued by the
Office of Disability Services (ODS). This letter must be obtained from ODS
and presented to the instructor at the start of the term. ODS does not grant
accommodation verification letter after the first week of the term. For
additional information, visit the ODR website at
http://www.drexel.edu/oed/disabilityResources, or contact the Office for more
information: 215-895-1401 (V), or disability@drexel.edu.

Appropriate Use of Course Materials

It is important to recognize that some or all of the course materials provided to you may be the intellectual property of Drexel University, the course instructor, or others. Use of this intellectual property is governed by Drexel University policies, including the policy found here: **https://drexel.edu/it/about/policies/policies/01-Acceptable-Use/**

Briefly, this policy states that **course materials, including recordings, provided by the course instructor may not be copied, reproduced, distributed or re-posted.** *Doing so may be considered a breach of this policy and will be investigated and addressed as possible academic dishonesty, among other potential violations. Improper use of such materials may also constitute a violation of the University's Code of Conduct found here:* **https://drexel.edu/cpo/policies/cpo-1/** *and will be investigated as such.*

Recording of Class Activities:

In general, students and others should not record course interactions and course activities in lecture, lab, studio or recitation.

Students who have an approved accommodation from the Office of Disability Resources to record online lectures and discussions for note taking purposes should inform their course instructor(s) of their approved accommodation in advance. The recording of lectures and discussions may only be carried out by the students enrolled in the class who have an approved accommodation from Disability Resources with their instructors' prior knowledge and consent. Students with approved accommodations may be asked to turn off their recorder if confidential or personal information is presented.

If a student has any comments, concerns, or questions about provided class materials and/ or recording, talk to your course instructor first. If this does not resolve the issue, you can also reach out to the Department Head, and use the process described for a grade appeal to move your concern forward. The process described for grade appeals can be found at: https://drexel.edu/provost/policies/grade-appeals/

Guidance to COVID-19

Masks are recommended in all indoor public areas including classroom settings.

Guidance regarding COVID-19 can be found at Drexel's Response to Coronavirus website: **https://drexel.edu/coronavirus/**