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| 2011-09-12_14-58-28 | **Kanbar College of Design,  Engineering and Commerce**  **Bachelor of Science in  Interactive Design + Media** |
| **DSGN-371-1 Web Development Syllabus**  Credits: # 3 LECTURE  Term: Fall  Class Schedule: Weds  6 to 9:15 PM  Class Location: TBD | **Instructor Information**  Name: Tom Barker  E-mail: barker@philau.edu  Phone: |

**Course Descriptions**

This course will explore the Web languages HTML, CSS, JavaScript, and Ruby on Rails. Students will be introduced to these languages through lectures, demonstrations and practical exercises. The focus will be on writing, testing and debugging the code and its appropriate application. A series of increasingly complex exercises will gradually build the student's knowledge and understanding of these languages.

**Course Objectives**

Understand web standards and protocols such as HTTP and TCP/IP

Use GitHub to create an online development portfolio

Learn to use git to manage code repositories and track code versioning

Learn to craft web pages with HTML 5 and CSS 3

Learn about the three tiers of a web application

Understand object oriented and functional programming in JavaScript

Learn about web servers

Understand how to measure and improve web performance

**Prerequisites**

DIGD-301 or DIGD-307

**Grades**

The following definitions are applied to appropriate letter grades:

A = excellent performance, well above expected achievement

B = good performance above expected achievement

C = expected achievement

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| --- | --- | --- | --- | --- |
| Superior | Above Average | Average | Below Average | Failing |
| A = 4.00  A- = 3.67 B+ = 3.33 | B = 3.00  B- = 2.67 C+ = 2.33 | C = 2.00 C- = 1.67  D+ = 1.33 | D = 1.00 | F = 0.00 |

D = poor or below expected achievement  
F = failure

Following is a list of letter grades and their equivalent percent grade:

**Course Content**

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| **Week** | **Topic or Readings** | **Meeting Location** |
| 1 | Intro to GitHub, Primer on git for code versioning | Class Room |
| 2 | Overview of HTTP and the TCP/IP stack , Apache and IIS, state of web servers and their supporting technology | Class Room |
| 3 | Anatomy of a web server, constructing a web server in Node.js | Gotomeeting (links will come via Phila U email before class) |
| 4 | Crafting web pages with HTML and CSS | Class Room |
| 5 | JavaScript Concepts | Gotomeeting (links will come via Phila U email before class) |
| 7 | Towers of Hannoi | Class Room |
| 8 | Intro to Ruby on Rails | Class Room |
| 9 | Crafting a middle tier with Ruby | Class Room |
| 10 | Responsive design and an exploration of front-end frameworks | Gotomeeting (links will come via Phila U email before class) |
| 11 | Web performance concepts and tools | Class Room |
| 12 | Review for final | Class Room |

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**Academic Integrity**

Academic integrity is a policy about ethical behavior at Philadelphia University regarding one’s intentions, decisions, and actions while conducting academic work. It includes values such as avoidance of the following: cheating; plagiarism; copying; the fabrication of information; and facilitating, or denying others access to information. It expects honesty and rigor in research, course work, writing and publishing. Academic Integrity is taken seriously in this course. Any student violating the University’s academic integrity policy will be subject to appropriate sanctions. The University’s complete academic integrity policy is available in the 2013-14 Academic Catalog and University’s Student Handbook.

Academic resources, including information on citation and documentation for all written work, projects, and presentations, are also available on the Learning and Advising Center’s website: [http://www.philau.edu/learning/writingguidelines.html.](http://www.philau.edu/learning/writingguidelines.html)

**Classroom Rules & Personal Conduct**

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**Attendance/Lateness**

In accordance with University policy, students are expected to attend class every day with all relevant required course materials and work. If you are absent from class, contact your faculty as soon as possible, preferably before the next class meeting. Students remain responsible for any missed work, for work completed in class, and for work due and must arrange for that work to be delivered to the faculty on time. **If you miss three classes, your grade will be dropped a full letter grade. More than four unexcused absences will result in a final grade of FAIL and a recommendation to drop the course.**

Serious illness, family emergencies, or other crises mean that students should contact the Dean of Students Office as soon as possible (215-­‐951-­‐2740) and follow up with a direct explanation to the faculty. Students are responsible for all work related to this class; however, faculty may (but are not required to) make some accommodation in terms of time of delivery and/or make-­‐up exams for major tests. Please consult with your faculty and your academic advisor to determine whether you should withdraw from the course or request an incomplete grade in the case of serious illness or crises.

**Electronic Resources**

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**Gutman Library** ([www.philau.edu/library)](http://www.philau.edu/library))

Gutman Library is a gateway to a variety of information resources. The homepage of the library provides 24/7 access to online databases of articles, e-­‐journal collections, e-­‐books, and specialized information to support your coursework. See a list of Research Guides for specific programs and courses at [http://libguides.philau.edu/start.](http://libguides.philau.edu/start) The library building is wireless, has 80 available workstations (PCs and Macs), printers, scanners, and copiers; as well as individual and group study spaces.

**The Learning and Advising Center**

The Learning and Advising Center provides one-­‐on-­‐one tutoring assistance for writing, study strategies, test taking, and specific Philadelphia University courses\*. To make a tutoring appointment, students should stop by the Learning and Advising Center in Haggar Hall or call (215) 951-­‐2799. Academic resources, including information on citation and documentation, note taking, and study strategies are available on the Center’s website.

**Technology Resources** (<http://www.philau.edu/OIT/)>

The campus is wireless. If you need a computer, Gutman Library and Search Hall have open access computers. For assistance with technology issues, students should contact the Technology Help Desk at (215) 951-­‐4648 or send an email to [helpdesk@philau.edu.](mailto:helpdesk@philau.edu)

**Collection of Student Work**

Philadelphia University is committed to providing excellent and innovative educational opportunities to its students. To help us maintain quality academic offerings and to conform to professional accreditation requirements where relevant, the University and its programs regularly examine the effectiveness of the curricula, teaching, services, and programs the University provides. As Philadelphia University sees appropriate, it may retain representative examples or copies of student work from all courses. This might include papers, exams, creative works, or portfolios developed and submitted in courses or to satisfy the requirements for degree programs as well as surveys, focus group information, and reflective exercises.

**Program Director**

If for any reason you need advisement from the program director, feel free to e-mail Neil Harner at [harnern@philau.edu](mailto:harnern@philau.edu) or call his office at (215) 951-2913

**Emergency**

In the event of an emergency call Phila U. Security at 2999.