**CSCI 6314**

# E-COMMERCE SYSTEMS AND IMPLEMENTATION

**Dr. John P. Abraham**

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| **ALL STUDENTS: PLEASE SUBMIT ASSIGNMENTS IN A MANILA FOLDER**   |  |  |  |  | | --- | --- | --- | --- | | **CSCI 6175.02 Seminar in Computer Science** | **Th 5:55 to 6:45 pm**  **Eng 1.272** |  |  | | **CSCI 6314.01 ECommerce** | **Th 7:20 to 9:50 pm**  **Eng 1.272** |  |  | | **CSCI 4345.01 Comp Networks**  **CMPE 4345.01 Comp Networks** | **TTh 1:40-2:55**  **Eng 1.290** |  |  | | **Office Hours** | **TTh 10:00-11:45 am**  **W 1:00-3:00 pm.** |  |  | | |

TA: Ms. Sijham Bahri – Computer Science TA room Office hours: Tuesday 3:05-5:00 pm and Thursday 5:00-7:00 pm.  [sijham.bahri01@utrgv.edu](mailto:sijham.bahri01@utrgv.edu)

**Required Textbook:**

Paul S. Wang, Dynamic Web Programming and HTML 5, CRC Press 2013. ISBN 978-1-4398-7182-9

**Recommended Supplemental books:**

Eric Newcomer, Understanding Web Services, Addison Wesley 2002, ISBN 0-201-75081-3

Eric Newcomer and Greg Lomow, Understanding SOA with Web Services, Addison Wesley 2005, ISBN 0-321-18086-0

**Recommended Reading:**

Nelson and Nelson. Building electronic Commerce with Database Constructions. Addison Wesley, 2002.

Kenneth C. Laudon, Carol Traver and Snyder, Carr I. E-Commerce 2015 (11th Edition) 11th Edition 2nd ed. 2015.

**Course Description and prerequisites**: Presents principles of E-commerce systems implementation, examines specific examples in depth, and students implement a working prototype site as class project. Prerequisites: CSCI 6302 and consent of instructor.

**Objectives for the course.**

1. Be able to define and summarize e-commerce, Marketing on the Internet, e-business models, monetary transactions on the web, and relevant terminology.
2. Compare and contrast between e-commerce and traditional commerce.
3. Be able to demonstrate knowledge of management principles in making decisions related to business.
4. Create a business plan including financial statements.
5. Create documents needed to start a business.
6. Be able to comply with local, state and federal laws regarding starting and maintaining a business including filling out tax forms.
7. Implement a secure site.
8. Demonstrate a basic understanding of computer networking and telecommunication.
9. Demonstrate understanding of Sponsored Search, more specifically Search Engines, Advertiser Bidding, and Empirical issues in Sponsored Search.
10. Create Web Services.
11. Create web pages using each one of the following: HTML, FrontPage, JavaScript, Dynamic HTML Style Sheets & Object Model and Collections, VB Script, XML and ASP.
12. Create an e-commerce site with a shopping cart. **Please note that everything we do in class will prepare you for this. Make sure not to miss any classes.**

**Grading Policy:**

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|  | Two tests | 50% |  | **90 and Above A** |  |
|  | Topic presentation | 10% |  | **80 to 89 B** |  |
|  | Shopping cart & presentation | 20% |  | **70 to 79 C** |  |
|  | Programming & Assignments | 20% |  | **Below 70 F** |  |
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**Assignments:**

1. Each student will be assigned a web design topic. Familiarize yourself with that topic thoroughly, and present it to the class. Demonstrate it with a program you wrote in that language (you will submit the program for a grade as a lab assignment). You will be assigned a date; please note that you must present on that day – if you fail to show up it will be an automatic Fail or drop. Please prepare a practical class assignment for all the students to submit the following week.
2. A series of programming Assignments in javaScript
3. Create a webserver
4. Develop a business plan
5. Learn to file business related forms and taxes
6. What should be included in an employee manual?

## Tentative Schedule

**Student presentations: Please create your own sample programs or web pages**

**when describing the topic assigned to you. You should start with a sample and**

**describe the steps needed to accomplish it. At the end of the presentation please**

**give a practical assignment to rest of the class which will be completed and**

**submitted to one person within the group.**

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| **TOPIC** | **CHAPTERS** | **Shopping cart** |
| Introduction | Dr. Abraham |  |
| Web an Overview | Dr. Abraham | Splash page |
| JavaScript lectures & assignments | Dr. Abraham | Remote Access |
| Management Lectures & Bus plan | Dr. Abraham | XAMPP install, Apache |
| Financial Management - portfolio | Dr. Abraham | Database connection |
| Bus Management Software | Dr. Abraham | Tables |
| Webpage Markup with HTML5 | 2 – Group 1 9/17 | Shopping Cart creation |
| Audio and Video using HTML5 | 3 – Group 2 9/24 |  |
| CSS (4) | 4 – Group 3 10/1 |  |
| PHP Forms & intro to Server-side Scripting(5,8) | 5,8 – Group 4 10/8 |  |
| HTML5 DOM and APIs | 7 – Group 5 10/22 |  |
| Database and queries | 9 – Group 6 10/29 |  |
| Apache, PHP and MySQL | 10 – Group 7 11/5 |  |
| XML, AJAX and Web Services | 11 – Group 8 11/12 |  |
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| OCTOBER 15 MIDTERM  Shopping cart Presentations 11/12-11/26 |  |  |

Some dates to remember:

August 31 Classes Begin

September 7 Labor Day Holiday; university closed

September 16 Last day to drop a class before it appears on the transcript and counts toward the “6-drop” limit. Last day to receive a 100% refund for dropped classes (other policies apply when a student is withdrawing from all classes).

November 18 Drop/Withdrawal Deadline; last day for students to drop the course and receive a DR grade. After this date, students will be assigned a letter grade for the course that will count on the GPA.

November 26-27 Thanksgiving Holiday; university closed

December 10 Study Day; no classes

December 11-17 Final Exams (schedule is posted at my.utrgv.edu – check your scheduled time and list it on the syllabus)

**Attendance:**

Attendance and class participation is required to pass the course. If you must miss an exam, make prior arrangements. No make-up exams will be given unless you contact me in advance! Homework assignments may be submitted to me by hardcopy in my mailbox prior to class time (May submit by email to mark date and time, but must be submitted by hardcopy for grading purposes). Late homework will be levied heavy penalties. Penalty: One day late 10%, 1 week late 20%, 2 weeks late 50%. Not accepted afterwards.

STUDENTS WITH DISABILITIES: If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. **Brownsville Campus**: Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at [accessibility@utrgv.edu](mailto:accessibility@utrgv.edu). **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at [accessibility@utrgv.edu](mailto:accessibility@utrgv.edu).

MANDATORY COURSE EVALUATION PERIOD: Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<http://my.utrgv.edu>); you will be contacted through email with further instructions. Online evaluations will be available Nov. 18 – Dec. 9, 2015. Students who complete their evaluations will have priority access to their grades.

SCHOLASTIC INTEGRITY: As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE: In accordance with UT System regulations, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at [www.utrgv.edu/equity](http://www.utrgv.edu/equity), including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

COURSE DROPS: According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.