**CSCI 6314**

# E-COMMERCE SYSTEMS AND IMPLEMENTATION

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**ALL STUDENTS: PLEASE USE BLACKBOARD TO SUBMIT ASSIGNMENTS**

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| **E Commerce Sys Implementa - 15130 - CSCI 6314 - 01** | M: 5:55 - 8:25 pm  **Eng 1.272** | Assignments: | Resource Person: Mr. Anthony Guerra  [anthony.guerra01@utrgv.edu](mailto:anthony.guerra01@utrgv.edu) |
| **Office Hours** | **MW 10:00-12:00** |  |  |

Cell phones must be entirely out of sight inside a closed backpack or purse. **IF YOU USE THE PHONE DURING CLASS, I WILL ASK YOU TO BRING THE PHONE TO THE FRONT AND KEEP IT ON THE TABLE UNTIL THE CLASS IS OVER, NO EXCEPTIONS.**

**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 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 program 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 your group. Please submit grades to Dr. Abraham within one week.**

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| **TOPIC** | **CHAPTERS** | **Members** |
| Introduction | Dr. Abraham 8/27 |  |
| Commerce | Dr. Abraham |  |
| Chapters 1,2, & 3 | Group 1 9/10 | Flores,Ostin, Rodriguez |
| JavaScript lectures & assignments  Styling with CSS | Dr. Abraham  Group 2 9/17 | Robledo, Go |
| Management Lectures & Bus plan  PHP forms and form Processing | Dr. Abraham  Group 3 9/24 | Garcia, Amaya |
| Financial Management – portfolio  Server Side PHP | Dr. Abraham  Group 4 10/1 | Cantu, Reyes |
| Bus Management Software | Dr. Abraham Midterm 10/8 |  |
| Dynamic User Interface with Javascript | Group 5 10/15 | Crum, Fonseca |
|  |  |  |
| Intro to APIs (show different APIs) | Group 6 10/22 | Huerta, Ramos |
| Database driven websites | Group 7 10/29 | Leal Garcia,Ogunkunle |
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| Webservices programming | ? |  |
| XML, AJAX and Web Services | ? |  |
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| MIDTERM  Shopping cart Presentations |  |  |

**Some dates to remember:**

Aug. 27 (Mon.) Fall classes begin

Aug 30 Last day to add a class or register for Fall classes

Aug 31 Last day to withdraw (drop all classes) and receive an 80% refund

Sept. 3 (Mon.) Labor Day Holiday. No classes.

Sept. 10 Last day to withdraw (drop all classes) and receive a 70% refund

Sept. 24 Last day to withdraw (drop all classes) and receive a 25% refund

Nov. 14 Last day to drop a class (grade of DR) or withdraw (grade of W)

Nov. 22 Thanksgiving Holiday. No classes.

Dec. 6 Study Day. No classes.

Dec. 10 Your exam

**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.

**Shopping Cart Timeline**

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| Week | Topic | What you should complete | What you should submit via email |
| 0 | HTML / CSS / PHP practice | * Freecodecamp exercises * Php tutorials |  |
| 1 | Project Proposal  Intro & Setup | * Create proposal for your shopping cart * Setup your hosting solution (local or web) * Setup your payment gateway account (PayPal). Create buyer and seller sandbox accounts. * Test that you can access your server using a test PHP page. | * 200-400 word narrative describing the details of your site. Include the name of your business, a description of your business and the products you will be selling. * Screenshot of working index.php file accessed from a browser * Screenshot of your buyer and seller sandbox accounts in PayPal developer console. |
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| 2 | Login and Signup Views | * Create the following pages: Login Page Signup page  You should focus on the content and structure of these these pages. | Screenshot of your login page  Screenshot of your signup page |
| 3 | Product Listing View | * Create a page that will display your products for sale:  Fill your product page with sample content. Make sure the sample content is relevant to your business.  You should focus on the content and structure. | Screenshot of your product page. |
| 4 | Cart and Checkout Views | * Create the following pages: Cart Page Checkout Page * Fill the cart page with sample content that is relevant to your business.  The cart page is where the user can see everything in their cart  The checkout page is where the user can fill out their payment info.  You should focus on the content and structure | Screenshot of your cart page  Screenshot of your checkout page |
| 5 | Database setup and seeding | * Using PHPMYADMIN, setup a database with the following suggested tables: admins Users / customers Products / inventory Orders cart items  You might also want these tables: Order items logins product categories * Fill in your tables with the relevant test data e.g. products, users, admins, order history, etc. * Create a test page that with code to query your database and display the results. | Submit your a screenshot of your test page that outputs the sample values from your database.  This test page is not part of your site, but you can use it to test your php queries. |
| 6 | Connect your site to the database | * Populate your products view with the data from your database * Connect your signup form to your database * Store user cart / session in database * Store orders after checkout | Submit screenshots that show that your site is storing / retrieving data from the database  \*\* Make sure to take advantage of the queries you made during the database setup and seeding \*\*  \*\* You can test the checkout page without setting up your payment gateway. \*\* |
| 7 | Admin and Customer dashboard views | * Store orders after checkout Create separate dashboard pages for your admins and customers.  The admins need to be able to do the following: edit products edit users view existing orders  The customers need to be able to do the following: update their profile view order history * Connect these pages to the database. | Submit screenshots of your completed pages |
| 8 | Connect your site to PayPal (get customer charging working) | * Connect your checkout page to your payment gateway and make sure that you complete the checkout successfully on PayPal’s end | Submit screenshot of the successful transaction in your sandbox merchant account. |
| 9 | Connect your site to PayPal (process PayPal’s response) | * Using PayPal’s API and documentation, parse the response from PayPal into your database  you will need to do the following on a successful response: update inventory table update order table provide user with confirmation | Submit screenshots of your work. |
| 10 | Force user login and restrict pages | * Edit your PHP code to require users to login * Edit your PHP code to restrict pages from being accessed by the wrong users  For example, you don’t want customers to have access to the admin pages | Submit screenshots of your work. |
| 11 | Style your site and add finishing touches. | * Now you can focus on styling your site with CSS or maybe Bootstrap |  |