**CSCI 6314**

# E-COMMERCE SYSTEMS AND IMPLEMENTATION

**Dr. John P. Abraham**

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|  **Professor: Dr. John P. Abraham. Office: Engineering Building Room 3.276****Web:** [**faculty.utpa/jabraham**](http://www.faculty.utpa.edu/jabraham)  **Please check this site frequently for updates.****Email:** **jabraham@utpa.edu****. Tele: 665-3550**

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| **ALL STUDENTS: PLEASE SUBMIT ASSIGNMENTS IN A MANILA FOLDER**

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| **CSCI 6314.01 ECommerce** | **Th 5:45 to 8:25pm****Eng 1.272** |  |  |
| **CSCI/CMPE 4345 Comp Networks** | **TTh 10:35-11:50****Eng 1.272** | [**Syllabus**](file:///%5C%5Cfaculty.utpa.edu%5Cjabraham%24%5C6314%5C2012%5C4345%5C2013%5Csyllabus.htm) |  |
| **CSCI 1201-03** | **MW 9:45-10:35** **ASB 2.110** | [**Syllabus**](file:///%5C%5Cfaculty.utpa.edu%5Cjabraham%24%5C6314%5C2012%5C1202%5CSyl2013.pdf) |  |
| **Office Hours** | **MW 10:45-12:00 pm****Th 3:15-5:45pm** |  | **Aug 26: first day of classes****Holidays: Sept 2, Nov 28-30****Study days Dec 5-6****Final Exams Dec 7-13** |

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**Follow me on Twitter: abrahamUTPA. You can ask me questions on Twitter.** **TA: Tammy Armani** **tammyarmani@gmail.com** |
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**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

Deitel, Deitel, & Nieto. e-Business & e-Commerce – How to Program. Prentice Hall, 2001.

**Recommended Reading:**

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

Turban, Efraim. Electronic Commerce 2002 – A managerial perspective. Printice Hall 2002.

Snyder, Carr I. Management of Telectommunications. 2nd ed. McGraw Hill, 2002.

Catalog description: Presents principles of E-commerce systems implementation, examines specific examples in depth, and students implement a working prototype site as class project.

**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.**

**Assignments:**

1. Each student will be assigned a web design topic. Familiarize yourself with that topic thoroughly, teach the rest of the class, 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. Please prepare a practical class assignment for all the students to submit the following week.
2. Manipulate data on any DBMS using ODBC/JDBC and C++, VB, or Java.
3. HTML – create a questionnaire to do research on e-commerce and collect the data over the web.
4. Write up incorporation papers, assumed name certificate, and other papers required to start a business.
5. Write an employee handbook (just the table of contents).
6. Follow a sample investment portfolio for two months.
7. JavaScript, C# and ASP.net assignment will be given as topics are covered.

JavaScript [Assignment\_1](http://bahia.cs.panam.edu/~abraham/6314/java/assignment1.html)  [Assignment\_2](http://bahia.cs.panam.edu/~abraham/6314/java/assignment2.html) [Assignment\_3](http://bahia.cs.panam.edu/~abraham/6314/java/assignment3.html) [Assignment\_4](http://bahia.cs.panam.edu/~abraham/6314/java/assignment4.html) [Assignment\_5](http://bahia.cs.panam.edu/~abraham/6314/java/assignment5.html)

C# and ASP Assignments:

## Tentative Schedule

Student presentation will be given priority. *My lecture will be date flexible.*

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| **Topic** | **Practical** |
| Intro to Commerce | Java Script |
| Fundamentals of Management | “ |
| Financial Management | “ |
| Financial Management | “ |
| Ecommerce Models | “ |
| Ecommerce Models | C# |
| How to set up a business | C# |
| Sharepoint and Web Services |  Servers |
|  |   |
|  |  |
| Network Security | Networking |
| Student Presentations |  |
| “ “ |   |
| “ “ |  |
| Tutorial presentations |   |
| Tutorial presentations |   |
|  |   |
|  Final Exam |   |
|   |   |

**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.**

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| **DATE** | **TOPIC** | **CHAPTERS** | **Shopping cart** |
| 8/29 | Introduction | Dr. Abraham |  |
| 9/5 | Web an Overview | Dr. Abraham |  |
| 9/12 | Webpage Markup with HTML5 | Carlos Trevino |  |
| 9/19 | Audio, Video, flash & silverlight | Armani, H. Garza, Guerrero |  |
| 9/26 | CSS | Bodepudi, Tijerina |  |
| 10/3 | PHP | Cantu A., H. Garza |  |
| 10/10 | Mid-term Exam | Dasari, Balandrano |  |
| ASP.Net |
| 10/17 | Database, SQL, ADO.NET  | Hinojosa, ShoenmakersGamez |  |
| 10/24 | XML, AJAX | Salinas, J. Garza  |  |
| 11/31 | Ruby on Rails | Gaspar, J. Garcia |  |
| 11/7 | Web Services | Z. Gomez |  |
| 11/14 | SVG, MathML, and Mobile Web | Pinon |  |
| 11/28  | holiday |  |  |
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|  | Final Exam |  |  |

Attendance and class participation is required to pass the course.

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

 If you wish to drop the course, please do so on or before the deadline. It is your responsibility to have the drop form signed and turned into the registrar before the deadline. Your professor will not submit a drop grade.

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 email or hardcopy in my mailbox prior to class time. 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 verifiable disability that makes it difficult for you to complete course work as outlined in this syllabus without special accommodations under either the Americans with Disabilities Act or the Rehabilitation Act of 1973, please inform the instructor as soon as possible. The instructor will be happy to work with you and the UTPA Office of Services for Persons with Disabilities (OSPD), Emilia Schunior Ramirez Hall, Room 1.101 (956) 316-7005; V-TDD (956) 316-7092; FAX (956) 316-7034. The OSPD will process accommodation requests, assist you with verification of a disability and arrange for special services.