THE NATIONAL HISPANIC UNIVERSITY

COURSE SYLLABUS

Month/Period class taught: Jan – Mar, 2010

COURSE NUMBER: CS 300
CREDIT UNITS: 3
COURSE TITLE: Introduction to Internet/Telecommunications
INSTRUCTOR: Amitabh Bihari
INSTRUCTOR’S CONTACT: (650)-736-7360
COURSE LENGTH: 10 weeks
EMAIL: sunnybay101@gmail.com
DEPARTMENT: Computer Science
DEPARTMENT COORDINATOR: Dr. Julio Garcia

Notes:
1. An instructor can initiate a drop if a student has missed three or more classes or has not attended class at all. This should be done in the first two weeks of class.
2. Students who want to challenge the class need to do it by the first week of classes. Students who do not pass the challenging tests then continue in the class.

COURSE DESCRIPTION:

CLASS MEETS: Monday and Wednesdays, 6:50 pm – 8:05pm

PRE-REQUISITES: CS 103 or consent of instructor.

Room: 101

TEXTBOOK(s) Jean | Andrews (2005). I-Net+ Guide to the Internet, 3rd Edition. Course Technology. (Instructor may use material from other text(s) to supplement or reinforce the objectives from the primary text.)

INSTRUCTION METHOD: Lecture, CBT tutorials, hands-on exercises, videos, small-group sessions, large-group discussions, presentations and writing assignments.

MATERIAL REQUIREMENTS: USB drive with a minimum capacity of 1 GB

COURSE OBJECTIVES: At the end of the course, students will be able to:

1. Compress files, decompress files, check files for viruses, and send and receive files via email.
2. Obtain and setup an email account.
3. Identify and locate information via the Internet. Include use of iPhone to access net and iPhone application development.
4. Create a Web site.
5. Describe network technologies such as Ethernet, Token Ring, FDDI, and wireless.
6. Describe how computers are used in industry, government and education.
COURSE REQUIREMENTS: Students are expected to adhere to the following:
Each student will be expected to meet the minimum competencies as outlined by the instructor.

- **PARTICIPATE** in all class activities using the laptop so that all group projects can be completed within the time frame.

- **SUBMIT** professional looking homework. If the homework requires narration, then the paper must be typed according to APA guidelines, or the instructor’s instructions.

- **USE** NHU’s and/or SJSU’s library and/or the **INTERNET** to complete some assignments.

- **READ THE ASSIGNMENTS** prior to class. You will learn more when you have read the material and are able to participate in class discussions.

- **PARTICIPATE** in class discussions, exercises and group projects.

- **DO HOMEWORK:** Spend the needed amount of time (about 9 hrs per week) in outside study (individual/group), and work assignments. A great deal of the homework will involve research on the course topic. You should become familiar with periodicals and publications that discuss issues related to the course topics.

- **WRITE & PRESENT PROFESSIONALLY:** University standard levels for oral presentations, written work and group work will be expected from the students.

LATE WORK POLICY:

- Late work without a valid excuse will be graded down 10% for each class day late.

- All quizzes and exams must be completed by the last official class day. A score of 0 will be given for any quizzes or exams not taken by the last official class day.

COURSE GRADING CRITERIA:

- Grading will be as follows:
  
  - A = 93% - 100%
  - A- = 90% - 92%
  - B+ = 86% - 89%
  - B = 83% - 85%
  - B- = 80% - 82%
  - C+ = 76% - 79%
  - C = 73% - 75%
  - C- = 70% - 72%
  - D+ = 66% - 69%
  - D = 63% - 65%
  - D- = 60% - 62%
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CS 300, Introduction to Internet/Telecommunications

GRADING

A. Course grade will be determined as follows:

1. Active participation 10%
2. Assignments (Hands-on Projects) 30%
3. Group presentation (Case Projects) 20%
4. Research Paper 10%
5. Quizzes 20%
6. Final Exam 10%

Total 100%

NOTES: 1). Special service needs? (Hearing, visual or other disability), please contact instructor, counselor, advisor or the Admissions Office.

NOTE: For each study group assignment, the written portion will be weighted 50% and the oral presentation will be weighted 50%

Active participation means that you need to attend the class and participate in discussions related to course material.

Assignments (Hands-on Projects) and Group presentation (Case Projects) will be done in class or in any computer with access to the Internet. The Assignments and Case Projects will be presented in front of the class at the beginning of the next chapter.

Final Exam will be taken on the 10th week of classes.
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CS 300, Introduction to Internet/Telecommunications

**SCHEDULE**

**Note:** The following schedule should be considered as fairly firm, yet also tentative. Based on class progress, or opportunities, the instructor may change the homework. Students are also encouraged to recommend changes. However, instructor has final decision.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic/Assignments</th>
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| 1    | Chapter 1: Using the Internet  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 1 |
| 2    | Chapter 2: Building Your Own Web Site, access of websites using smart phones.  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 2 |
| 3    | Chapter 3: How Clients and Servers Work Together  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 3 |
| 4    | Chapter 5: Understanding Networks  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 5  
      Mid Term exam |
| 5    | Chapter 6: Internet Infrastructure  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 6 |
| 6    | Chapter 7: Internet Clients  
      Homework: Hands-on Projects  
      Homework: Case Projects  
      Answer Review Questions – Chapter 7 |
Chapter 8: Solving Client Problems
Homework: Hands-on Projects
Homework: Case Projects
Answer Review Questions – Chapter 8

Chapter 9: Web Programming, iPhone Application development and Related Tools
Homework: Hands-on Projects
Homework: Case Projects
Answer Review Questions – Chapter 9

Chapter 10: Databases and Web Hosting
Homework: Hands-on Projects
Homework: Case Projects
Answer Review Questions – Chapter 10

Chapter 11: Internet Security
Homework: Hands-on Projects
Homework: Case Projects
Answer Review Questions – Chapter 11