Syllabus Page 1 of 2

CS460 - Syllabus

Click here for more

1. Course Description

Computer networks have become an essential tool enabling users to obtain information and to co-ope CS460 is designed to teach students fundamentals of analysis and design of computer networks. The comprehensive tour through all of networking data transmission, network technologies such as internetworking protocols, services and application software.

2. Learning Outcomes

On successful completion of this course unit you will:

- Understand the characteristics and applications of various networking technologies.
- Understand how a collection of communication protocols co-operate and communicate to achieve the communication function.
- Have a working knowledge of at least one protocol at each of the main levels of the OSI seven laye
- Understand packet forwarding and the role of routing protocols.
- Understand error detection and recovery mechanisms.
- Understand how features such as flow control and quality of service are achieved.

3. Topics

The following topics will be covered in this course:

- Uses of Computer Networks
- Network Hardware
- Network Software
- Reference Models
- Example Networks
- Network Standardization

4. Textbooks

Syllabus Page 2 of 2

- Computer Networks and Internets, 5th Edition
 - 0 0-13-143351-2
 - o Prentice Hall
 - o Douglas E. Comer
 - o Required
- Computer Networks,4th Edition
 - 0 0-13-066102-3
 - o Prentice Hall
 - o Andrew S. Tanenbaum
 - o Optional
- <u>Understanding Data Communications and Networks</u>
 - 0 0-534-38317-3
 - o Thomson
 - o William A. Shay
 - o Optional
- Computer Networking with Internet Protocols and Technology
 - 0 0-13-141098-9
 - o Prentice Hall
 - William Stallings
 - o Optional

Syllabus Page 1 of 6

5. General Information

Classroom: Henry Hall - H121	Email: pmartins@chaminade.edu
Instructor: Dr. Martins	Office Hours: T, Th 3-4 pm
Office Number: <u>Keiffer</u> #26	Web: http://cs.chaminade.edu/faculty/pmartins/
Telephone: (808) 739-4601	Fax: (808) 440-4249

6. Evaluation

Evaluation	# Points	Tentative Dates
First test (T1)	10	
Second test (T2)	10	
Third test (T3)	10	
Final exam (T4)	10	See Deadlines
1st Assignment (A1)	15	
2nd Assignment (A2)	15	
Quizzes (QZ)	30	

- The final grade (FG) will be determined as follows: FG = (T1+T2+T3+T4)*10 +30* Qn+10* (A1 + A:
- For example, a student that obtained 10 points in the first test, 10 in the second test, 10 in the third of 7 points in the final exam, 30 in the quizzes, 10 in the first assignment, 14 in the second assignment accumulate a total of 91 points (meaning a final grade A).
- Quizzes will be the mean average of all quizzes taken, scaled at 30%. It can be calculated as QZ = Q2 + Q3 +...Qn)/n, where n is the total number of quizzes in this course. Each quiz will be graded ir from 0-10.

Syllabus Page 2 of 6

- For example, if there are five quizzes, then QZ = 3*(Q1 + Q2 + Q3 + Q4 + Q5)/5.
- The final exam is comprehensive.

Special Rules and Other Notes:

1. The lowest grade **midterm test** (i.e. T1, T2 or T3) will be replaced by the final examination (T4), the final examination grade is greater than the lowest grade test.

This rule is based on the fact that the final examination is comprehensive, and is intended to motive who do not perform well on earlier exams to persevere and overcome those setbacks by further selected the problem of occasional emergencies which may cause a student to miss a midterm exam

7. Grading

Grade	Interpretation	Points
A	Unusual degree of intellectual initiative.	90-100
В	Superior work done in a consistent and intellectual manner.	80-89
С	Average grade indicating a competent grasp of subject matter.	70-79
D	Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work.	60-69
F	Failed to grasp the minimum subject matter; no credits given.	00-59

8. Students Rights & Responsibilities

Please refer to the student rights and responsibilities in the Student Handbook.

Syllabus Page 3 of 6

9. Attendance

Experience has shown a high correlation between absenteeism and low grades. Role will be taken at Attendance will be weighed in determining your final grade. Students are expected to attend all classes. misses class, it will have the following adverse effect on his/her grade:

- Grade lowered by one grade if 7 times absent.
- Student will be withdrawn from the course, or take a grade of "F," if 10 or more times absent.

10. Quizzes

Pop quiz may be given at any time without advance announcement, if I get the impression students are no up with the course. There will be no make-ups for quizzes, but the same forgiveness rule applies as for at

11. Communication

If you are experiencing difficulty or are concerned about your progress, please contact me right away. P usually easier to solve when they are addressed early.

You are required to verify that your e-mail address is included in the class e-mail list. I will send everyone at the start of the term. If you don't get that first message, make sure you are added to the list.

Check regularly for electronic mail sent to you containing information about this course. You are also en use e-mail to ask questions and report problems. As a Chaminade student you have an err firstlnitial.LastName@student.chaminade.edu.

Please use <u>acronyms</u> in all forms of electronic communication.

Because of past problems with impersonation, I cannot reply to e-mails related to this course from other e-addresses.

This syllabus and other information, such as course announcements, assignments, lecture notes, and links to other web sites, will be posted on the CS Department's web site for the course, which is http://cs.chaminade.edu/faculty/pmartins. Access to most of the materials on that site will require a special and password, which will I will provide to you via e-mail.

12. Punctuality

Syllabus Page 4 of 6

Students. Punctuality will also be weighed in determining your final grade. Students are expected to be class. If a student is late to class (15 minutes or more) or leaves class early (15 minutes or more), it ν following adverse effect on his/her grade:

- Grade lowered by one grade if 7 times late or leaving class early.
- Student will be withdrawn from the course, or take a grade of "F," if 14 or more times leaving class I

Faculty. I am normally punctual with classes. If in any circumstance I do not show up punctually, the expected to wait 15 minutes before considering the class cancelled and leaving.

A good time reference is the official U.S. time.

13. Exams

Missed exams will not be covered with extra exams or make up exams. A missed midterm will be replaced exam.

Students are not allowed to do exams before or after the set date. You know the date of all your exams, the expected that you organize your trips around these dates.

Upon receiving your graded exam you should check for any discrepancies. Complaints will not be accept leave the classroom or if the exam was originally written using a pencil. If a discrepancy is found the enti be revised and not only the problem found. A revision of an exam may increase or lower your grade.

You always have the entire class time to answer the exam. You should not expect any extension to this tin

Students are expected to do their own exam. Copying from each other or from published sources is prol penalty for copying on tests, exams or quizzes, or (also for sharing information about your test on a testin is:

- A zero mark for that item of evaluation (exam, quiz, etc), OR
- An F for the entire course.

14. Assignments

All assignments are due on the day indicated on them and must be turned in as specified. <u>Do not expect</u> for lateness. Whether to accept any late turn-ins of assignments will be entirely at my discretion. If a late is accepted, the score will ordinarily be reduced. The amount of the reduction will be entirely at my dismay depend on how late the assignment is. In any case, no work will be accepted for grading after a

Syllabus Page 5 of 6

discussed or handed out, either in the class or on the web. Late submissions without a substantial real illness will generally be subject to penalties as follows:

Same day as due but after desired time......03%

Next day......10%

• Two to four days:.....20%

• Five days or more:.....30%

There are certain expectations concerning the format and substance of assignments. They will be assess the following criteria:

- <u>Comprehensiveness</u>. Elaborate as much as you can on the issues or topics raised. Avoid
 short or incomplete answers.
- Originality. When formulating your answers, use your creativity (your own words, staten programs etc..) i.e. avoid paraphrasing the text book.
- Correction. Needless to say, the ideal answer will be correct from a logical viewpoint.
- Organization. The structure, organization and clarity of the material that you present (progradocument) is also part of the criteria for assessment and will also be considered in graundless otherwise stated, only electronic document files are accepted no handwriting please

A major requirement of your programs is their coverage. No credit will be given for programs that cannot or that do not work on any of the test cases. Beyond this, a significant portion of the credit will be determ many of the test cases, and also which of them, your program handles correctly.

<u>Plagiarism.</u> While informal discussion is encouraged, students are expected to do their own work. Copyin other or from published sources is prohibited, including "cut and paste" from websites. The penalty for assignments is applicable to all parties involved, i.e. those who copy an assignment and those who assignment labeled "individual". It consists of a zero mark for that item of evaluation for the first time, and course for the second occurrence.

<u>Backup.</u> Always keep a backup of all assignments and quizzes that you submit during the semester, need to re-submit it later on.

Notifications. Needless to say, it is your responsibility to notify your instructor as soon as possible of any may prevent you from doing your assignment (such as computer or application malfunctioning in on essential information missing or misrepresented in a web page and so on), so that the appropriate act taken to address the problem.

15. Participation

Syllabus Page 6 of 6

The study of much of Computer Science is cumulative (*i.e.*, understanding earlier material well is necessal later material. Do not allow yourself to fall behind, by postponing studying, and then figure you will jump at catch up with the rest of the class.

16. Remarks

- <u>Copies.</u> All graded work will be returned in class for examination and taken back for the cou Students who miss class are responsible for picking up their papers no later than one week after the next semester. Work that is not picked up by then may be discarded. The one exception are final examinations will be retained in the department for six months.
- Note. The contents of this syllabus can be changed with advance notification;
- <u>Class Meetings</u>. For a few of the scheduled days, shown in the course calendar, there may be class because I am required to travel on University business. This class time will be made up scheduled class meetings (to be arranged) in which students will demonstrate their projects for other students who are able to attend. These meetings will be arranged at multiple times, if necessevery student can demonstrate his or her project.
- <u>Lab policy.</u> No eating or drinking in the labs. Eating or drinking in a computer based lab is
 obstruction of teaching, administration. Determination of whether a student is being obstructive or
 left to the sole discretion of the faculty responsible for the class or activity. See attached <u>email from</u>