C	S430 - S	Syllabı	JS	
1.Description	2. Outcomes	3.Topics	4.Textbooks	More
1. Course Descri	ption			
Lecture/Lab hours: See schedule	Prerequis CS310		equired for: None	Course Credit:

survey or software engineering and detailed study of topics from requirement analysis and specification, programming methodology, software testing and validation, performance and design evaluation, software project management, and programming tools and standards.

Software engineering is a very broad field. It encompasses virtual everything a person might want to know in order to develop software -- software that is correct, on time, and on budget. Most other computer science courses emphasize the technical foundations of software development, such as programming, algorithms, data structures, languages, etc. This course focuses on the pragmatic aspects, such as requirements analysis, cost estimation, design, team organization, quality control, configuration management, verification, and testing.

The field of software engineering has several areas, each of which could well justify an entire semester of study. Since this course is the only course on SE taken by many students, we will sacrifice depth for breadth.

The intent of this course is that students coming out should be familiar with the core concepts and jargon in each area, have gone into a little more depth on some areas, and have experienced an attempt at applying software engineering methods to an actual project, as a member of a team. [T.Baker]

2. Learning Outcomes

The course is a survey of the field of software engineering, with a practical component. Students leaving the course should:

- be able to explain and apply a broad range of concepts from software engineering, spanning all aspects the software engineering process
- be able to recognize, define, and make correct use of generally accepted software engineering terminology
- have experience of working as a member of a team on a software engineering project
- have experience applying a representative cross section of software engineering techniques

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Topics covered in this course will include the following:

Part One: The Product and the Process

- The Product
- The Process

Part Two: Conventional Methods for Software Engineering

- System Engineering
- Analysis Concepts and Principles
- Analysis Modeling
- Design Concepts and Principles
- Architectural Design
- User Interface Design
- Component-Level Design
- Software Testing Techniques
- Software Testing Strategies
- Technical Metrics for Software

Part Three: Object Oriented Software Engineering

- Object-Oriented Concepts and Principles
- Object-Oriented Analysis
- Object-Oriented Design
- Object-Oriented Testing
- Technical Metrics for Object-Oriented Systems

Part Four: Managing Software Projects

- Project Management Concepts
- Software Process and Project Metrics
- Software Project Planning
- Risk Analysis and Management
- Project Scheduling and Tracking
- Software Quality Assurance
- Software Configuration Management

4. Textbooks

Title	ISBN# / Editor	Author	Priority
Software	0-07-285318-2	Roger	Required

Engineering: A Practitioner's Approach.		Pressman	
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Syllabus (cont)

5.General Info

9.Attendance

6. Evaluation

7. Grading

8. Rights

12. Punctuality

13. Exams

10. Quizzes 14. Assignments 11.Communication 15. Participation

16. Remarks

5. General Information

Classroom: Hen	ry Hall - H121	Email: pmartins@chaminade.edu
Instructor: Dr. Ma	artins	Schedule: mySchedule
Office Number:	Keiffer #26	Web: _http://cs.chaminade.edu/faculty/pmartins/home.htm
Telephone: (808)) 739-4601	Fax: (808) 440-4249
Office Hours:	See schedule	Extra Office Hours: <u>email me</u>

6. Evaluation

Evaluation	# Points	Tentative Dates
First test (T1)	0-10	
Second test (T2)	0-10	
Third test (T3)	0-10	
Final exam (T4)	0-10	<u>See</u> Schedule
Eirst Assignment (A1)	0-15	ochedule
Second Assignment (A2)	0-15	
Quizzes (QZ)	0-30	

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	ade (FG) will be determined as follows: FG = T4+Qn+A1 + A2. Each test will be graded acco	rding to the scale
 For example second test, quizzes, 10 accumulate Quizzes will can be calcumate 	e, a student that obtained 10 points in the first te 10 in the third test, a total of 7 points in the fina in the first assignment, 14 in the second assign a total of 91 points (meaning a final grade A). be the mean average of all quizzes taken, scal lated as $QZ = 3 * (Q1 + Q2 + Q3 +Qn)/n$, whe uizzes in this course. Each quiz will be graded	l exam, 30 in the ment, will led from 0-30. It ere n is the total
 For example Q5)/5. 	e, if there are five quizzes, then QZ = 3*(Q1 + Q2 am is comprehensive.	2 + Q3 + Q4 +
Special Rules and	d Other Notes:	
final examir	grade midterm test (i.e. T1, T2 or T3) will b nation (T4), if and only if the final examinatio est grade test.	
and is inter exams to p solves the p	based on the fact that the final examination nded to motivate students who do not perfor ersevere and overcome those setbacks by fu problem of occasional emergencies which may erm examination.	rm well on earlier rther study. It also
		cause a student to
7. Grading		cause a student to
		Points
7. Grading Grade A	Interpretation Unusual degree of intellectual initiative.	
Grade	Interpretation	Points

Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite

Failed to grasp the minimum subject matter; no credits given.

course work.

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8. Students Rights & Responsibilities

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

9. Attendance

Experience has shown a high correlation between absenteeism and low grades. Role will be taken at each class. Attendance will be weighed in determining your final grade. Students are expected to attend all classes. If a student 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 not keeping up with the course. There will be no make-ups for quizzes, but the same forgiveness rule applies as for attendance.

11. Communication

If you are experiencing difficulty or are concerned about your progress, please contact me right away. Problems are 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 a message 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 encouraged to use e-mail to ask questions and report problems. As a Chaminade student you have an email account firstInitial.LastName@student.chaminade.edu.

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

This syllabus and other information, such as course announcements, assignments, lecture notes, and some useful links to other web sites, will be posted on the CS Department's web site for the course, which is located at http://cs.chaminade.edu/faculty/pmartins. Access to most of the materials on that

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site will require a special login name and password, which will I will provide to you via e-mail.

12. Punctuality

Punctuality will also be weighed in determining your final grade. Students are expected to be on time for class. If a student is late to class (15 minutes or more) or leaves class early (15 minutes or more), it will have the 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 late or early.

13. Exams

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

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

Upon receiving your graded exam you should check for any discrepancies. Complaints will not be accepted after you leave the classroom or if the exam was originally written using a pencil. If a discrepancy is found the entire exam will 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 time.

Students are expected to do their own exam. Copying from each other or from published sources is prohibited. The penalty for copying on tests, exams or quizzes is: A zero mark for that item of evaluation for the first time, and an F for the course for the second occurrence.

14. Assignments

All assignments are due on the day indicated on them and must be turned in as specified. *Do not expect forgiveness for lateness. Whether to accept any late turning of assignments will be entirely at my discretion.* If a late assignment is accepted, the score will ordinarily be reduced. The amount of the reduction will be entirely at my discretion, and may depend on how late the assignment is. In any case, no work will be accepted for grading after a solution is discussed or banded

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out, either in the class or on the web. Late submissions without a substantial reason such as 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:.....50%

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

- <u>Comprehensiveness</u>. Elaborate as much as you can on the issues or topics raised. Avoid giving short or incomplete answers.
- <u>Originality</u>. When formulating your answers, use your creativity (your own words, statements, programs etc..) i.e. avoid paraphrasing the text book.
- <u>Correction</u>. 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 (program or document) is also part of the criteria for assessment and will also be considered in grading. Unless 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 be compiled or that do not work on any of the test cases. Beyond this, a significant portion of the credit will be determined by how many of the test cases, and also which of them, your program handles correctly.

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

Backup. Always keep a backup of all assignments and quizzes that you submit during the semester, in case you 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 events that may prevent you from doing your assignment (such as computer or application malfunctioning in one our labs, essential information missing or misrepresented in a web page and so on), so that the appropriate actions can be taken to address the problem.

15. Participation

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

16. Remarks

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

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