Senior Project – CSc 191

Day 190 + 1!!!

Senior Project Coordinator
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Project Emphasis

• Relatively small project is used to *simulate* the process of applying software engineering principles to the development of a large scale software system.

  Teams are *required* to do the work that would be required of teams working on a much larger project… one involving 25 or more developers grouped into teams working on various subsystems.

• The work is guided by standard software development “best practices”.
Size / Effort Tradeoff

Applying SWE Principles appropriate for Large Scale SW Systems

Applying minimal set SWE Principles

Required Effort

Average Senior Project

Size of Project
Again, CSc 191 is the continuation of the “Business” started in CSc 190

• Seminar meetings are like “all-hands” meetings with the company’s CEO - everyone present.

• Meetings with Faculty Project Adviser are like meetings with the Division’s project manager.

• Team meetings are “run” with the team’s project manager providing the organizational focus.

Team is responsible for “managing” the relationship with the sponsor… your customer.
“Work Place” Rules

• “Wednesday Meeting” absences:
  – One unexcused absence - warning
  – Grade reduction for additional unexcused absence
    (e.g. A becomes an A-, or less)

• Poor quality of work

• Other missed and unexcused meetings

• Lack of attention during meetings (napping, coming late, doing other work… etc.)

*Often nothing is said … but unprofessional behavior is noticed!*
SUBJECT: Usage of cellular phones in lecture halls during the lecture time

“This note is sent to you serving as the Academic Council's chair person. I am asking you about the formal policy of our College regarding the use of cellular phones in the classrooms during the lectures.

More and more, it is becoming not only intimidating but unmanageable habit of our students making our lectures impossible to handle. This morning, I was forced to leave my class lecture and I had asked the class to solve that problem among themselves, if they want to be taken seriously by their instructors.

Any assistance/advice that you can provide, I would appreciate. I assume that the other faculty will be grateful, too, if they have some kind of formal guidelines regarding this issue.”
Discipline and Accountability is expected

COMMUNICATION… the key
Between team members, team and sponsor, team and faculty adviser, team and me.

• Write it down!
• If you don’t understand, ask!
• If you think you understand, check!

The responsibility of ALL team members!

*Delegated work that is not done or done poorly is the responsibility of the team?*
1. Team Meetings
   (Agenda and Minutes)
2. Weekly Time and Status Reports
3. Project schedule
4. Weekly Meetings With Project Faculty Adviser
   (Agenda and Minutes)
5. Meetings with Sponsor / Customer
   (Agenda and Minutes)
6. Technical Review Summary Reports
7. Baseline Change Requests

http://gaia.ecs.csus.edu/~buckley/CSc190/ProjectLog.pdf

The “Audit Trail”
What takes so long?

The “Process”

Development Process Model
# What you do in CSc 191 - Second Semester

**Activity**
- Complete software design specification
- Prepare user interaction prototypes
- Prepare System Test Plan and System Tests
- Implement System Design
- Conduct System Tests & Prepare System Test Report
- Create User's Manual
- Create Delivery CD
- Prepare for Customer Presentation

**Deliverable**
- SDS Document
- Prototypes and Sponsor approval
- STS Document
- Baseline CODE
- STR Document
- UM Document
- Product CD
- Delivery: installation & demonstration

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_All “Deliverables” completed & approved by end of week 13_

**NEW!**
_Allow for (and plan for) two weeks of operational use_

_Sponsor sign-off by end of week 15 – last day of instruction_
Course Grade

Read the **COURSE SYLLABUS** and **COURSE OBJECTIVES / EXPECTATIONS**

Course grade is assigned by Faculty Adviser and Seminar Instructor

Seminar Requirements:

- Attendance
- Assignments and **exams**
  - Participation
  - Presentation
  - Team evaluations
- Team **Schedule**
- Team’s **Project Log**
- Weekly **Time Sheets and Status**

Team works collaboratively and consistently over the remaining 15 weeks - Software is completed on-time and according to specifications!
COURSE MATERIALS

REVIEW

COURSE SYLLABUS
COURSE OBJECTIVES / EXPECTATIONS

READ

Updated Project Log specification (what is required … and why)
All standard Forms (some are new)

Quiz next time
CSUS Definition of Grade Symbols

(page 103 – CSUS 2002-04 Catalog)

**A** = *Exemplary* achievement of the course objectives. In addition to being clearly and significantly above the requirements, work exhibited is of an independent, creative, contributory nature.

**B** = *Superior* achievement of the course objectives. The performance is clearly and significantly above the satisfactory fulfillment of course requirements.
Senior Project as a “Real” Job

Failed projects can be successful projects! … also
Failed projects can be failures for some or all involved!

Symptoms on the road to “failure”:

• Exhibiting little, if any, project management
• Having no usable, realistic schedule
• Missing deadlines with no advance warning, contingency planning, etc.
• Failure of team to meet weekly with their faculty adviser
• Failure of team to meet weekly
• Poor customer/sponsor contact
• Not delivering a product

Each team member is a “representative” of the Department, the College and the University!
Senior Project - The Benefits

Provides the opportunities to:

• Develop a software product for a real client.

• Work as a member of a software development team

• Accumulate realistic work experience.

• Create a portfolio documenting the quality of your work.

• Begin the transition from your academic life to your professional life.

• Graduation!