

IT7833 Capstone Fall 2004 – Monday 9-10:15PM J110 & WebCT

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Office Hours: Mondays—Noon - 5PM & by appointment 678.915.5509. Please call before you come.
Textbook: Porter-Roth *Request for Proposal* Addison-Wesley, 2002, ISBN 0-201-77575-1

Course Topical Outline

1. Understand problems & requirements in the context of business needs & software architecture
2. A) Team¹ with others to incorporate business needs and software architecture from a prior project to develop a quick description and request for proposal (RFP) for a software project. B) Then later evaluate proposal(s) in response to the RFP
3. Team with others to develop a proposal in response to an RFP, start and complete a project
4. Develop a project plan with appropriate attention to IT strategy factors
5. Implement the project, including documentation, training, and performance aids and also IT policy and procedures
6. Track and monitor the project/product against requirements, IT business needs and criteria, with weekly reporting
7. Report, present, and demonstrate the project and the product

Grading

Individual Contribution (55%) as assessed by

- The Instructor (35%)
- Your project teammates² (20%)

Milestone Grades (45%)

- RFP (10%)
- Project Proposal (5%)
- Project Plan (5%)
- Project Implementation (10%) requirements management, tracking business needs against criteria, etc.
- Project Product (10%), including documentation, training, performance aids, associated policies and procedures, etc. Note that any product that does not work (mostly) in the demo means the team earns a maximum B for the course
- Final Report and Presentation (5%)

Suggestion for Project Reporting

In addition to the project report, we suggest a project notebook be submitted. In the notebook, your team can document activity, logs, documentation, training outlines, performance aids, policies, procedures, partial products (e.g., designs, layouts, object descriptions, class descriptions, usability lab reports, etc.), project tracking against milestones, needs, and criteria, etc that will be useful in evaluating the project/product according to the following criteria:

For a C -- The team³ makes good-faith effort completing one project iteration, i.e., taking it “up a level.”

For a B -- The team completes what is described above and has an effective analysis, used an accepted software development approach, has a working prototype for the application, and has done some testing.

For an A -- The team completes what is described above and implements a disciplined design approach that places the product strategically. The design implementation should encompass requirements, good design, have good user interactivity, have good ease of use and learning, and be well tested. It should be a complete system, including documentation, training recommendations and performance aids. Appropriate IT policies and procedures should be outlined. The product should be in harmony with the appropriate software architecture. The project personnel should work together well as a team, and teach each other tips and techniques. The project personnel should treat product stakeholders with respect.

¹ In the case of an individual working on a project, that individual will work as a team of one

² In the case of an individual project, the instructor will be the sole determiner of your contribution

³ In the case of a single individual working on a project that individual shall be “the team”

Week	Fall 04	Topic/Milestone	Concept Topic	Reading	Due
1	23-Aug	Introduction			
2	30-Aug	Project Choice & Team Formation	Requirements and Business Needs	RFP Chapters 1-4	
3	6-Sep	Requirement Gathering	RFP--Reqs and Business Needs		
4	13-Sep	Requirement Articulation/RFP Draft	RFP--Value, Cost, and Evaluation	RFP Chapters 5-7	
5	20-Sep	Workshop Class--Rich absent			
6	27-Sep	RFP (Requirements Section) Due	Business Case and Project Management		RFP Reqs. Sections
7	4-Oct	Proposal Draft Due 4-Oct	Strategic Planning		Proposal Draft
8	11-Oct	Final Proposal 11 Oct	Costs/Benefits & Measuring Progress towards Needs		Final Proposal
9	18-Oct	Project Plan Draft 18-Oct	Make or Buy and Integrate "Components"		Project Plan Draft
10	25-Oct	Workshop Class	Track to Needs and Measure to Meet Criteria		
11	1-Nov	Project Plan Due 1 Nov/Requirements	Policy and Procedures		Project Plan
12	8-Nov	Design	Documentation, Training, Performance Aids		
13	15-Nov	Development			
14	22-Nov	Testing/Implementation of Whole System			
15	29-Nov	Float			
16	6-Dec	Final Presentation	Present and Demonstrate Product and System		Final Presentation
Finals	13-Dec	Everything Report/Product due December 13			Final Report/Product
Grad	18-Dec	Graduation December 18			