CSCI 621 - Software Project Management  
Fall 2005  
Department of Computer Science and Quantitative Methods  
College of Business Administration  
Winthrop University

Instructor: R. Stephen Dannelly, PhD  
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Phone: 323-4811  
Email: dannellys@winthrop.edu  
Office Hours: Monday through Thursday 10:00am to noon and 1:00-2:30pm  
also available by appointment

Course Description  
An introduction to the economics, metrics and management strategies required to plan and successfully execute a large software project. The fundamentals of software engineering, requirements, design and realizations are utilized to focus both software professionals and project managers on process models and practices.

Course Objectives  
After successfully completing this course, the student will
• Understand the strengths, weaknesses, and applicability of various development models  
• Have a basic knowledge of project estimation tools and techniques  
• Understand the role of metrics in software project management  
• Be able to create a schedule for a complex project and understand principles of project team organization  
• Understand the role and contents of various project documents, as well as established industry standards for such documents

Prerequisites  
• CSCI 207 Computer Science I or basic knowledge of programming  
• QMTH 205 Statistics I or basic knowledge of statistics  
• MGMT 341 Information Systems

Text  
Quality Software Project Management  
by Futrell, Shafer, and Shafer  
Prentice Hall Inc

Grading Policy  
Letter grades will be based on a 10point scale.  
Exam One: 20%  
Exam Two: 20%  
Final Exam: 30%  
Paper and Presentation: 30%
Attendance Policy

Exam material will be based on class lectures and discussions. Not all lecture material will come from the textbook. Hence, it will be extremely difficult to successfully complete the course without coming to class.

Paper and Presentation

Each student will select a topic that relates to the content of this course and write a paper on that topic. The choice of topic is left to the student, mostly. The course instructor must approve the topic. The topic must be one that is not otherwise substantially covered in this course or another course. You may choose to write a review of case studies, or a review of available software tools, or you may be interested in...

The paper must be at least 10 double-spaced pages and no more than 15 pages. Use appropriate citations!

Each student must present her/his findings in class. Presentation should take at least 30 minutes.

Topic Approved by Instructor: Oct 27
Tentative Outline Completed: Nov 10
In-Class Presentations: Nov 22 and 29
Paper Due: Dec 1
COLLEGE OF BUSINESS EXPECTATIONS REGARDING
PROFESSIONALISM IN THE CLASSROOM

The College of Business Administration is a professional organization with a well-defined and widely
disseminated mission of student development. Accordingly, each class represents a gathering of professionals
and professionals-in-training. The instructor’s job as a professional is to deliver quality instruction in each
class, to start and end each class on time, to be responsive to student perspectives, issues and questions, and to
treat each student respectfully. The student’s job, as a professional-in-training is to be prepared for class, to be
on time, to attend all classes, and to be respectful of others in the classroom.

In accordance with and pursuant to these roles the following guidelines were established to specify to students
(both present and prospective) faculty expectations regarding their behaviors

1. **Students will attend all class meetings.** There are no automatically “excused” absences. In the event
   that you will be unable to attend a class session, you should inform your professor in advance as a
   matter of professional courtesy just as you would/should with an employer.

2. **Students will arrive in advance of the beginning of the class session.** Late arrivals are disruptive,
inconsiderate and unprofessional. Professors may make arrangements for delinquents, but are not
obliged to do so. Those not present at the beginning of the classroom period will be considered absent.

3. **Students will not converse among themselves during class except when instructed to do so.** When
   a student creates a disturbance in the classroom, instructors will either ask the student to desist
   immediately or speak to the student at the conclusion of class. Repeat offenders will be sanctioned.

4. **Students will not leave class before its conclusion.** Early departures are disruptive, inconsiderate and
unprofessional. Professors may make arrangements under some circumstance, but are not obliged to do
so. Those not present at the conclusion of the classroom session will be considered absent.

5. **Students will have procured textbook/materials prior to the first class.** Instruction will begin with
the first class meeting and consume the remainder of the class period.

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STUDENTS WITH DISABILITIES

Winthrop University is dedicated to providing access to education. If you have a disability and need
accommodations, please contact Gena Smith, Coordinator, Services for Students with Disabilities, at 323-3290,
as soon as possible. Once you have your Professor Notification Form, please tell me so that I am aware of your
accommodations well before the first exam.
## Tentative Schedule
**CSCI 621 - Fall 2005**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Text Chapter</th>
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<tbody>
<tr>
<td>Aug 23</td>
<td>Course Overview</td>
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<tr>
<td>Aug 25</td>
<td>Development Life Cycles</td>
<td>1, 3, 4</td>
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<td>Aug 30</td>
<td>Domain Processes</td>
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<td>Sept 1</td>
<td>Project Team</td>
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<td>Sept 6</td>
<td>Defining Goal and Scope</td>
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<td>Sept 8</td>
<td>Defining Work Packages</td>
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<td>Sept 13</td>
<td>Defining Activities</td>
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<tr>
<td>Sept 15</td>
<td>Intro to Estimation</td>
<td>10, 11</td>
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<tr>
<td>Sept 20</td>
<td>Overview of COCOMO</td>
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<tr>
<td>Sept 22</td>
<td>More about Empirical Estimation</td>
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<td><strong>Sept 27</strong></td>
<td><strong>Exam One</strong></td>
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<td>Sept 29</td>
<td>Roles and Organization</td>
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<td>Oct 4</td>
<td>Scheduling</td>
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<td>Oct 6</td>
<td>More Scheduling</td>
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<td>Oct 11</td>
<td>Requirements Gathering</td>
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<td>Oct 13</td>
<td>Writing Specifications</td>
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<td>Oct 18</td>
<td>Risk Analysis</td>
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<td>Oct 20</td>
<td>more on Risks (short class due to MBA lecture)</td>
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<td><strong>Oct 25</strong></td>
<td><strong>Exam Two</strong></td>
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<td>Oct 27</td>
<td>Intro to Modeling and Design</td>
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<tr>
<td>Nov 1</td>
<td>more on design</td>
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<tr>
<td>Nov 3</td>
<td>another look at Metrics</td>
<td>20, 21, 26</td>
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<td>Nov 8</td>
<td>V&amp;V, Testing Basics</td>
<td>23</td>
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<td>Nov 10</td>
<td>more on testing, full example</td>
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<td>Nov 15</td>
<td>SQA</td>
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<td>Nov 17</td>
<td>Configuration Management</td>
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<td>Nov 22</td>
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<td>Nov 24</td>
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<td>Nov 29</td>
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<td>Dec 1</td>
<td>Review for Final</td>
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**Final Exam 6:30pm Wednesday Dec 8**