



Degree Applicable
Effective Quarter: Fall 2007

I. Catalog Information

CIS 95C **Risk Assessment and Mitigation - a Practicum** **4 Unit(s)**

Prerequisite: Computer Information Systems 95B or equivalent experience.

Advisory: English Writing 100 and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

Four hours lecture, two hours laboratory.

Focus on responding to uncertain events or conditions for a positive or negative effect on project objectives. Implement techniques for planning for risks and learn to change project plans to reduce the probability and/or impact of the risk.

II. Course Objectives

- A. Analyze and decide how to approach and plan the risk management activities for a project.
- B. Determine which risks might affect the project and documenting their characteristics.
- C. Performing a Qualitative analysis of risks and conditions to prioritize their effects on project objectives.
- D. Measure the probability and consequences of risks and estimating their implications for project objectives.
- E. Develop procedures and techniques to enhance opportunities and reduce threats to the project's objectives.
- F. Monitor residual risks, identifying new risks, executing risk reduction plans, and evaluating their effectiveness throughout the project life cycle.

III. Essential Student Materials

None

IV. Essential College Facilities

None

V. Expanded Description: Content and Form

- A. Analyze and decide how to approach and plan the risk management activities for a project.
 - 1. Learn to use inputs to Project Planning

2. Tools and Techniques for Risk Management Planning
 3. Create a Risk Management Plan
- B.** Determine which risks might affect the project and documenting their characteristics.
1. Risk Categories
 2. Use Risk Management Plan and Project planning outputs to identify risks in several categories.
 3. Implement tools and techniques for risk identification
 4. Create triggers for response to risks.
- C.** Performing a Qualitative analysis of risks and conditions to prioritize their effects on project objectives.
1. Assess the impact and likelihood of identified risks.
 2. Learn to use inputs to Qualitative Analysis
 3. Tools and Techniques for performing qualitative analysis
 4. Create overall risk ranking and list of prioritized risks.
- D.** Measure the probability and consequences of risks and estimating their implications for project objectives.
1. Analyze numerically the probability of each risk and its consequences.
 2. Quantify the risk exposure to project.
 3. Identify realistic and achievable cost, schedule and scope targets.
- E.** Develop procedures and techniques to enhance opportunities and reduce threats to the project's objectives.
1. Develop options and actions to enhance opportunities and reduce threats to projects objectives.
 2. Create a risk register identifying residual risks and secondary risks.
- F.** Monitor residual risks, identifying new risks, executing risk reduction plans, and evaluating their effectiveness throughout the project life cycle.
1. Ensure that execution of risk plan occurs.
 2. Evaluate the effectiveness of reducing risks
 3. Risk Monitoring and control are associated with implementing contingency plans.

VI. Assignments

- A.** 3-12 Homework Assignments helping students apply the PMBOK Theory from text and lab manual. Students will work on case studies on fictitious scenarios and prepare papers and/or presentations.

VII. Methods of Instruction

None

VIII. Methods of Evaluating Objectives

- A. Solving scenarios that require implementation of course outline.
- B. One Midterm
- C. Final exam

IX. Texts and Supporting References

- A. Required Texts
 - 1. "Project Risk Management", Bruce T. Barkley, - July. 15th 2004, McGraw-Hill Publishing (007143691X)
- B. Supporting Texts and References
 - 1. None