Project: Designing and Programming an Application

CPT 423

Southwestern College Professional Studies

COURSE SYLLABUS

I.   Course Catalog Description

Through the design of a complete application, participants learn how to establish a robust, scalable and secure business solution using the development and programming tools learned throughout previous computer programming courses. *Prerequisite: 4 CPT courses.*

II.   Required and Supplementary Instructional Materials

Schwalbe, K. (2014). *Information technology project management* (7th ed.). Boston, MA: Course Technology, Cengage Learning.

III.   Learning Outcomes

Learning outcomes describe the knowledge, skills, values, and attitudes that learners gain as the result of a particular learning experience. Southwestern College Professional Studies has learning outcomes specific to each course and each undergraduate and graduate program of study, as well as institution-wide outcomes related to the mission and vision of the college. Outcomes can help learners and instructors focus on the big picture of the learning experience and can help inform potential employers about a graduate's knowledge and skills.

Upon successfully completing this course, the learner will be able to:
- Use sound project development principles and practices to develop business software applications.
- Identify the development processes and establish project life cycles.
- Evaluate project requirements using sound risk management principles.
- Develop a project's vision and scope and identify the triple constraints
- Explain the role of a project manager.
- Align and document the project's conceptual and technical design to match user requirements.
- Reduce risk through prototyping and testing.
- Use technology to set project priorities.
- Identify and use quality levels for design.
- Develop change request procedures and learn how to listen to the voice of the customer.
- Evaluate user change requests during the various phases.
- Implement the application through beta testing.
- Document training requirements and operation requirements.
- Learn to deliver a successful application.
- Evaluate the product's success.

At the end of the course, learners may vary in their ability to achieve these outcomes. You are more likely to achieve these outcomes only if you attend class and/or online activities as required by the syllabus, complete the requirements for all assignments to the best of your ability, participate actively in class activities and group work as directed, and study diligently for exams.

IV.   Course Policies

Students are expected to read and abide by the course policies located in the instructor- specific syllabus in the blackboard course.

V.   Course Requirements:

Requirements	Number of Assignments	Points Possible	Percent of Grade
Discussions	12	300	30
Chapter Quizzes	12	500	50
Final Portfolio	1	200	20
Total Points	**13**	**1,000**	**100**

VI.   Course at a Glance:

Unit	Reading & Preparation Activities	Graded Work Due
1	• Read *Schwalbe* chapters 1-2 • Review the chapter 1-2 PowerPoint Presentations • Review the chapter 1-2 lecture notes	• Unit 1 Discussion 1 • Unit 1 Discussion 2 • Unit 1 Chapter 1 Quiz • Unit 1 Chapter 2 Quiz
2	• Read *Schwalbe* chapters 3-4 • Review the chapter 3-4 PowerPoint Presentations • Review the chapter 3-4 lecture notes	• Unit 2 Discussion 1 • Unit 2 Discussion 2 • Unit 2 Chapter 3 Quiz • Unit 2 Chapter 4 Quiz
3	• Read *Schwalbe* chapters 5-6 • Review the chapter 5-6 PowerPoint Presentations • Review the chapter 5-6 lecture notes	• Unit 3 Discussion 1 • Unit 3 Discussion 2 • Unit 3 Chapter 5 Quiz • Unit 3 Chapter 6 Quiz
4	• Read *Schwalbe* chapters 7-8 • Review the chapter 7-8 PowerPoint Presentations • Review the chapter 7-8 lecture notes	• Unit 4 Discussion 1 • Unit 4 Discussion 2 • Unit 4 Chapter 7 Quiz • Unit 4 Chapter 8 Quiz
5	• Read *Schwalbe* chapters 9-10 • Review the chapter 9-10 PowerPoint Presentations • Review the chapter 9-10 lecture notes	• Unit 5 Discussion 1 • Unit 5 Discussion 2 • Unit 5 Chapter 9 Quiz • Unit 5 Chapter 10 Quiz
6	• Read *Schwalbe* chapters 11-12 • Review the chapter 11-12 PowerPoint Presentations • Review the chapter 11-12 lecture notes • Review the Unit 6 Final Portfolio assignment directions	• Unit 6 Discussion 1 • Unit 6 Discussion 2 • Unit 6 Chapter 11 Quiz • Unit 6 Chapter 12 Quiz • Unit 6 Final Portfolio

VII.   Other Policies and Requirements

Follow this link to the Southwestern College Professional Studies Standard Syllabus in Blackboard. You may be required to log in.