Wharton County Junior College

Administrative - Master Syllabus
COVER SHEET

***Purpose**: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.*

Course Title - Comprehensive Software Project: Planning & Design
Course Prefix and Number - INEW 2330
Department -Computer Science **Division** - Technology & Business
Course Type: (check one)

☐ Academic General Education Course (from ACGM – but not in WCJC Core)
☐ Academic WCJC Core Course
☒ WECM course (This course is a Special Topics or Unique Needs Course: Y☐ or N☒)

Semester Credit Hours #: Lecture Hours #: Lab/Other Hours #: 3:2:2

Equated Pay hours for course - 3

Course Catalog Description - A comprehensive application of skills learned in previous courses in a simulated workplace; covers the development, testing, and documenting of a complete software and/or hardware solution. This course may be used as a capstone course for a certificate or degree.

Prerequisites/Co-requisites - Completion of 30 computer credit hours in the Computer Programming AAS degree.

List Lab/ Other Hours
Lab Hours 2
Clinical Hours
Practicum Hours
Other (list)

Prepared by: Donna Schilling ***Date:*** 7/8/2015

Reviewed by Department Head: Donna Schilling ***Date:*** 7/8/2015

Accuracy Verified by Division Chair: David Kucera ***Date:*** 8/12/15

Approved by Dean or Vice President of Instruction: Leigh Ann Collins ***Date:*** 12-18-15

I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum clinical or other non-lecture instruction):

- Software Installation
- Project definition
- Project estimation methods
- Creating a Task List - emphasis on task duration
- Setting Up People Resources
- Project Specifications
- Documentation
    - Self-documenting code, documentation strategies
    - ISO/IEC Std 12207, Information Technology – Software Life Cycle Process
    - IEEE/EIA Std 12207, Information Technology – Software Life Cycle Process
    - User documentation incorporation
    - Variable Dictionary
- Assigning Resources to Tasks
- Saving a project baseline
- *Quote document*
- *Bid document*
- Project Information Management and Distribution
- General release procedures development and documentation
- *Alpha Release*, Release, Install, Demonstrate, Test – *Internal* Test Site
- *Beta Release*, Release, Install, Demonstrate, Test – *Customer* Test Site
- *Final Release: Version 1.0*
- Maintenance & Upgrades
- Personal Character
- Measuring Performance with Earned Value Analysis
- Consolidating Projects & Resources

II. Course Learning Outcomes

Learning Outcomes	Methods of Assessment
Upon successful completion of this course, students will: Design a computer solution for a business problem; apply individual programming skills, document and present the project.	**All outcomes will be assessed by one or more of the following:** Assignments Tests Quizzes Projects Final Exam

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

McConnell, Steve, Microsoft Press, Second Edition, ISBN#978-0-7356-1967-0

Chatfield, Carl, PMP, and Johnson, Timothy, MCP, Microsoft Office Project 2013 Step by Step, First Edition, Microsoft Press, ISBN# 978-0-7356-6911-6

IV. Suggested Course Maximum - 24 (TC141, SUGUH378, SUGUH370, P111); 20 (P106)

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

- Computer for each student with Internet access, a word processor, compiler, ide software, and graphic design software (optional).

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

10%-20% - Assignments
60%-80% - Project
0%-40% - Exams
0%-20% - Quizzes, Attendance, Participation
20%-40% - Final Exam

VII. Curriculum Checklist

☐ - **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

☐ - **Academic WCJC Core Course**
Attach the Core Curriculum Review Forms

- ☐ Critical Thinking
- ☐ Communication
- ☐ Empirical & Quantitative Skills
- ☐ Teamwork
- ☐ Social Responsibility
- ☐ Personal Responsibility

☒ - **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.