



Course Information

Course Title	Comprehensive Software Project: Planning & Design
Course Prefix, Num. and Title	INEW 2330 - Comprehensive Software Project: Planning & Design
Division	Technology and Business
Department	Computer Science
Course Type	WECM Course
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.
Pre-Requisites	Completion of 30 computer credit hours in the Computer Programming AAS degree.
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:2:2
Lab/Other Hours	
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	2
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and 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 o 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

Course Learning Outcomes:

Learning Outcomes – 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.

Methods of Assessment:

All outcomes will be assessed by one or more of the following:

Assignments

Tests

Quizzes

Projects

Final Exam

Required text(s), optional text(s) and/or materials to be supplied by the 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

Suggested Course Maximum:

24 (TC141, SUGUH378, SUGUH370, P111); 20 (P106)

List any specific 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).

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

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist