**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  
**Equeted 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.

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**List Lab/Other Hours**

<table>
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<tr>
<th>Lab Hours</th>
<th>Clinical Hours</th>
<th>Practicum Hours</th>
<th>Other (list)</th>
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**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

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

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


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.