COURSE SYLLABUS

Semester: Summer 2010

Course Prefix/Number: CEN6064

Course Title: Software Design

Course Credit Hours: 3.0

Instructor and Contact Information:

   Dr. Laura J. White
   Office: Building 4, Room 225
   Email: lwhite@uwf.edu
   Tel: 850-474-3017
   Virtual Asynchronous Office Hours: Monday through Friday in eLearning
   Campus Office Hours: By appointment

Course Website: http://elearning.uwf.edu/ (login and select CEN6064)

Prerequisites or Co-requisites: CEN6016

Course Description:

Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-based design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind.

Student Learning Outcomes:

Upon successful completion of the course, students will be able to:

1. - describe the purpose of software design

2. - describe the relationships between software architecture, design, modeling, methodology, and notation.

3. - compare and contrast various software design methods

4. - construct a design representation in UML

5. - describe the agile software development process

6. - describe principles and practices related to agile design

7. - describe the use and benefit of design patterns

8. - discuss the influence of design principles on the quality of software

9. - describe specific concerns for the design of user interfaces and web applications
10. - construct a software design

11. - evaluate various design methods for use in a software maintenance project.

**Textbook:** Software Design, 2nd edition, by David Budgen

**Grading:**

- 60%  Weekly Discussions and Exercises
- 20%  Design Projects
- 20%  Comprehensive Final Exam

**Expectations for Academic Conduct/Plagiarism Policy:**

As members of the University of West Florida, we commit ourselves to honesty. As we strive for excellence in performance, integrity (personal and institutional) is our most precious asset. Honesty in our academic work is vital, and we will not knowingly act in ways which erode that integrity. Accordingly, we pledge not to cheat, nor to tolerate cheating, nor to plagiarize the work of others. We pledge to share community resources in ways that are responsible and that comply with established policies of fairness. Cooperation and competition are means to high achievement and are encouraged. Indeed, cooperation is expected unless our directive is to individual performance. We will compete constructively and professionally for the purpose of stimulating high performance standards. Finally, we accept adherence to this set of expectations for academic conduct as a condition of membership in the UWF academic community.

Any occurrence of academic dishonesty, including all forms of cheating and plagiarism, will result in action ranging from a grade of zero on the assignment to expulsion from the university. For more information, see the UWF Student Handbook.

**Assistance:**

Students with special needs who require specific examination-related or other course-related accommodations should contact the UWF Office of Disabled Students Services ([http://uwf.edu/sdrc/](http://uwf.edu/sdrc/) or tel. 850-474-2387). DSS will provide the student with a letter for the instructor that will specify any recommended accommodations.

**Other Course Policies:**

**Online Resources:** All students are expected to explore the UWF Online Campus website to familiarize themselves with online resources (e.g., tips, FAQs) relevant to online learning.

**Due dates for Assignments/exams:** I do not accept late homework assignments or exams. Generally, students will have an entire week to complete assignments and disruptions in schedule or accessibility at the "last minute" are not considered reasonable excuses for late submissions. I highly encourage students to complete assignments at the beginning of the week in which assignments are due.

**Communication:** The primary means of communication for this course will be within eLearning. Your instructor will post announcements in the News section of eLearning, and/or the General Course Questions & Answers discussion forum. It is your instructor's expectation
that email will only be used to communicate with me or with fellow students when eLearning is unavailable or the communication is of a personal nature. When communicating with me via email regarding a personal issue, you are required to compose your subject line as follows: CEN6064 LastName - topic (e.g., CEN6064 White - Out of Country). Please keep in mind that although, the primary source of course communication will be through eLearning, students are still required to check both their UWF email and the eLearning courseroom daily to keep up with important announcements, assignments, etc.

Your instructor will generally be available during normal business hours, Monday through Friday within eLearning throughout the course period. This means that I will generally engage with students or review student contributions within the course at least once a day, Monday through Friday. Although assignments are due at 11:59 p.m. on Sundays, I will only be accessible Monday through Friday, so students are highly encouraged to complete all assignments by normal close of business on Friday afternoon, in case any issues come up that require my assistance. While I realize that students will necessarily need to engage with each other outside of normal business hours -- I do expect that students will manage group projects such that scheduled times are established for conference calls or Elluminate sessions -- group members are not expected to be "on call" an excessive amount of time during the week, or at times of day that are disruptive to personal obligations external to this course.

**Exercises and Participation:** Discussion and exercises are an important part of learning. Participation in online discussions are integral parts of this course and comprise significant parts of your final grade.

**Grades:** Final grades will be calculated using the standard UWF grade distribution. This offering is within a UWF 'E Term'. This means that non-standard calendar dates are established for withdrawals. The last day of the term for withdrawal from an individual course with an automatic grade of 'W' is generally about half-way through the course. Withdrawals after that date will result in a grade of 'WF' or withdrawal-failing. Applying for an incomplete or 'I' grade will be considered only if: (1) there are extenuating circumstances to warrant it, AND (2) you have a passing grade and have completed at least 70% of the course work, AND (3) approval of the department chair.

**Participation and Feedback:** I encourage active participation and regular feedback. I believe that effective communication between the instructor and students will make the course more useful, interesting, and productive. Students are required to treat each other with consideration, courtesy and respect. It is expected that students will perceive topics differently, or not always reach consensus within groups regarding tactics for group projects -- in these cases, students are expected to communicate with each other in a considerate and respectful manner. Please contact me in the course discussion area if you have any questions, concerns, or suggestions!

**Important Note:** Any changes to the syllabus or schedule made during the semester take precedence over this version. Check the eLearning courseroom regularly for up-to-date information.