Credits: 3  
Prerequisites: Grade of at least C in CSC 330  
Meeting Times: TR 11:00-12:15pm  
Location: Eber 250  

Instructor: Andrew A. Schaefer  
Office: Petty 155  
Office Hours: TWR 2-3pm; or by appointment  
Webpage: http://www.uncg.edu/~aaschaef  

Email: aaschaef@uncg.edu Please include CSC340F15 in the subject line of your email, any email without this may be missed.  

Catalog Description: Practical and theoretical concepts of software engineering.  

Student Learning Outcomes: Upon completion of this course students should be able to:  

1. Demonstrate knowledge of principles and terminology of the field of Software Engineering  
2. Demonstrate knowledge of object-oriented modeling techniques (UML).  
3. Apply knowledge in 1-2 to the requirements, analysis, design, implementation and testing of a software system in a team project; and present project deliverables in written form.  
4. Demonstrate knowledge of software teams and software engineering ethics.  
5. Demonstrate knowledge of software evaluation.  
6. (WI) Write in a manner appropriate to the field of Computer Science.  

Course Topics: The topics that will be covered during the course of the semester include:  

1. Introduction to Software Engineering including Software Engineering Ethics  
2. Software Life Cycle Models  
3. Software Process  
4. Software Teams  
5. Introduction to Testing  
6. Software Project Planning and Estimating  
7. Requirements and UML  
8. Object-oriented Analysis and UML
9. Modules and Design
10. Reuse and Portability
11. Implementation
12. Integration and Testing
13. Maintenance
14. Special Topics (e.g. Software Architecture, User Interface Design)


Final Exam: There will not be a be a comprehensive Final Exam.

Exams: Exams will be closed book, closed notes.

Programming Assignments: Any programming assignments will be announced in class along with due dates and submission requirements. Assignments are due before the submission date and time; late assignments will not be accepted. While students may seek assistance from the instructor, and lab tutors for programming assignments, each student is responsible for their own submission, and may be required to demonstrate complete knowledge and understanding of their submitted work; failure to do so may result in a reduction of the assignment grade.

Written Assignments: All written assignments will be announced in class along with due dates. Assignments are due before the start of class on the scheduled due date; late assignments will not be accepted. Each student should complete all assignments independently.

Attendance Policy: Students are expected to attend class regularly. It is the student’s responsibility to obtain the information that was presented during a class that was missed.

Makeup Policy: You may not make up exams without prior arrangements, a written medical excuse or a documented emergency. Makeup exams are at the sole discretion of the instructor, if you fail to make up the exam within a reasonable period of time, you will receive a zero.

Canvas Policy: You should check Canvas regularly for course announcements. Grades from assignments and exams will be posted to Canvas. It is the student’s responsibility to inform the instructor of missing or misreported grades within one week after they are posted.

Work Submission Policy: Submissions (both online and hard-copy) are evaluated as is. It is the student’s responsibility to submit the correct version of your work. Submitting the wrong version of your work is not a valid excuse.

Writing Requirements: Students are required to write multiple papers and reports during the course of the semester. While the instructor will give feedback and assist students in improving the quality of their
written communication, students are advised that additional help is available from the following university center:

- The University Writing Center provides assistance to students in writing tasks from organizing thoughts to the mechanics of effective writing. The Writing Center provides individual consulting for students through either face-to-face or online sessions. For more information, please refer to the Writing Center web site at http://www.uncg.edu/eng/writingcenter/

Grading Policy: Each of the following components will contribute the indicated percentage to your overall grade:

- Exam I .......................... 20%
- Exam II .......................... 20%
- Project ........................... 40%
- Assignments .................... 10%
- Participation .................... 10%

Grading Scale: Final Grades will be determined based on the following scale:

- A+ [97%, ∞)
- A [93%, 97%)
- A- [90%, 93%)
- B+ [87%, 90%)
- B [83%, 87%)
- B- [80%, 83%)
- C+ [77%, 80%)
- C [73%, 77%)
- C- [70%, 73%)
- D+ [67%, 70%)
- D [63%, 67%)
- D- [60%, 63%)
- F [0, 60%)

Academic Integrity Policy: The UNCG Academic Integrity Policy is available here: http://sa.uncg.edu/handbook/academic-integrity-policy/. Any student who violates this policy will receive a zero for the work and is subject to a reduction of the final grade of this course (up to "F"). The instructor will report the case to the university.

Electronic Device Policy: Cell phones and other electronic devices should be turned off (or muted) prior to the beginning of class.

Recording Policy: No student may record any classroom activity without express written consent from me. If you have (or think you may have) a disability such that you need to record or tape classroom activities, you should contact the Office of Accessibility Resources & Services http://ods.uncg.edu/ to request an appropriate accommodation.

Classroom Decorum: You should arrive on time; habitual tardiness is disruptive. Eating and drinking is not permitted in class. Disruptive behavior will not be tolerated, you will be asked to leave. A pattern of disruptive behavior may result in your withdrawal from the course.

Withdrawal: A syllabus constitutes an agreement between the student and the course instructor about course requirements. Participation in this course indicates your acceptance of its teaching focus, requirements, and policies. Please review the syllabus and the course requirements as soon as possible. If you
believe that the nature of this course does not meet your interests, needs or expectations, if you are not prepared for the amount of work involved - or if you anticipate that the class meetings, assignment deadlines or abiding by the course policies will constitute an unacceptable hardship for you - you should drop the class by the drop/add deadline, which is located on the Academic Calendar. For more information, please visit the Office of the University Registrar.

Disclaimer: This syllabus is intended to give the student guidance in what may be covered during the semester and will be followed as closely as possible. However, the instructor reserves the right to modify, supplement and make changes as needs arise.