

CS-491: Software System Development I: Implementation and Testing

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1 Times and Places

- Time: MWF 2:30-3:45
- Office hours will normally be MWF 12:30-2:15
Other times by appointment.

2 Texts and Other Resources

Required Text

The SPIN Model Checker, Gerard Holzmann, Addison Wesley, ISBN 0-321-22862-6

Recommended Text

Texts from cs 490

Other Resources

Many online resources

3 Course Objectives

There are four major objectives in this course. Upon completion of the course:

1. You should have an understanding of the basic process of the eXtreme programming development method.
2. You should have an understanding of the tools used eXtreme programming; including: IDEs, Version Control, Project Automation, Unit Testing, as well as: Use-Cases, testing using Use-Cases, Security Audits, and application deployment.
3. You should understand how to interact with a client in a professional manner.
4. You should be able to presenting technical material in a professional manner in both written and oral presentations.

4 Course Overview

The main goal of the course is to complete the project started in cs 490 a professional manner, using eXtreme programming. Material in using formal models (SPIN) and UML will be presented, as well as some details on the profession.

5 Grading

About 3 assignments (20%)
Midterm Project Evaluation (35% total).
Final Project Evaluation (35% total).
Final Project Presentation (10% total).
Class participation (exta credit - if used).

The following grading scale will be used initially.

SCALE: A	100-90
BA	90-88
B	88-80
CB	80-78
C	78-70
DC	70-68
D	68-60

For the midterm evaluation you will receive a 0 if you have do not have a running system, which has been successfully demonstrated to the client. All project development methodologies that are indicated as required by the instructor must be in fully in place.

The final scale may be curved at the end of the course, if it appears warranted.

6 Details

Late Assignments

Late assignments will receive a 50% deduction if turned in within a week of the due date. Normally, no credit for work that is more than one week late.

Incompletes

Incompletes will only be given for causes as indicated in the Graduate and Undergraduate catalog (see them for details).

Academic Integrity

The Professional Concerns Committee of the Faculty Senate recommends that all faculty include the following paragraph in each syllabus.

You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate Catalog (pp. 268-269) and Graduate Catalog (pp. 26-27) Catalog that pertain to Academic Integrity. These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse. If there is reason to believe you have been involved in academic dishonesty, you will be referred to the Office of Student Conduct. You will be given the opportunity to review the charge(s). If you believe you are not responsible, you will have the opportunity for a hearing. You should consult with me if you are uncertain about an issue of academic honesty prior to the submission of an assignment or test.