Computer Science 3352 Course Syllabus*

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1 Course

Course: Simulation Theory

Prerequisites: CS1320 and knowledge of statistics, e.g., means, standard deviations, normal distribution, uniform distribution.

The content for this elective course will include an introduction to simulation, discrete simulation models, random number generation, queuing, and statistics.

2 Instructor

Instructor: Jeffrey D. Oldham

Email: oldham@cs.trinity.edu (If your Windows email program bounces the email, use a better program or send to Jeffrey.Oldham@trinity.edu.)

WWW: http://www.cs.trinity.edu/~joldham/1321/

Telephones: 210.999.8139 (office), 210.832.9879 (home)

Office: Halsell 201J

Office Hours: Office hours include two hours in a computer lab. If I have time and there is interest, we may discuss using computer tools during these lab hours.

3 Text

I have not yet found a textbook covering all the course material. For the discrete portion of the course, I will distribute chapters from a proposed textbook by Steve Park and Larry Leemis.

Two textbooks for the GPSS/H software package are:

- *Using Proof Animation*, second edition, by Wolverine Software Corporation
- *Getting Started with GPSS/H*, second edition, by Jerry Banks, John S. Carson II, and John Ngo Sy, published by Wolverine Software Corporation

4 Assignments and Grades

4.1 Homeworks

Homework assignments will consist of both written and programming projects. Most programming projects will almost certainly involve the GPSS/H programming language. Most homework assignments will be distributed on the class WWW site.

4.2 Examinations

One in-class exam will occur 29 February. The final exam will be given 10 May, 8:30–11:30am. Please notify me on or before 25Jan if you have another exam scheduled at the same time.

4.3 Grades

The grades in this course will be determined by the results of

weighting	assignment
40%	exams,
50%	homework assignments, and
10%	class project participation.

4.4 Collaboration

Unless otherwise specified, homeworks must be completed individually. Even on these homeworks, studying in small groups is permitted. Together, you can discuss approaches to solving a problem, but you must individually solve the problem. When you hand in a paper with your name on it, I assume that you are certifying that this is your work and that you were involved in all aspects of it. Similarly, on your homework paper, you should write the names of the other students with whom you worked.

Here is an example scenario of how a good collaboration on a programming project might work:

> Both (all) of you sit down with pencil and paper and together plan how you're going to solve things. You go together to a cluster and sit at adjacent machines. When one of you has a problem, the others look over your shoulder. In your submission, each of you lists the names of all of your collaborators.

Collaboration on written homework problems is analogous. For more examples, see the CS1321 collaboration policy.

5 Academic Violations

The first and all subsequent violations of academic integrity will immediately result in a grade of F for the course.

Among the possible violations are cheating, counterfeit work (submitting work created or produced by others including submitting joint work as one's own), and plagiarism. Not listing the name of a collaborator will be deemed cheating. Similarly, copying another person's work and representing it as one's own work is a violation.

There has been much recent work on automatic detection of plagiarism. Your assignments may be checked using these tools. Among these are plagiarism.org and Glatt Plagiarism Services. Detection of plagiarism by these tools will be considered sufficient evidence of a violation of academic integrity.

You are also expected to abide by the Trinity Code of Ethics for Computing.

If you cannot abide by these rules, do not take this course from me.

5.1 Security of Your Work

You are responsible for ensuring the security of your work. This includes both physical and electronic copies. Even though the Trinity Code of Ethics for Computing prohibits unauthorized access to your computer files, you are responsible for ensuring they are adequately protected. For information how to restrict access to your Trinity CS computer files, see the File Security Tutorial.

6 Disabilities

I encourage students with disabilities including "invisible" disabilities like chronic diseases, learning disabilities, and psychiatric disabilities to discuss with me appropriate accommodations that might be helpful.