CSCE 3600/3605 Syllabus

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Office: NTDP F262
Office Hours: Tuesday, Thursday: 10:00-11:15, 3:30-4:15
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Textbook: Adam Hoover
System Programming in C

Course Description:

CSCE 3600 and 3605 are combined this term, at least for this section. As such, the focus of the course will be on systems programming, both from the standpoint of learning about how computer system software works and learning/improving students’ programming skills in C (not C++) and bash. The course will include a significant programming project that is broken into 4 parts which build upon one another.

Course Outcomes:

Course outcomes are measurable achievements to be accomplished by the completion of a course. These outcomes are evaluated as part of our ABET accreditation process.

1. Write robust, efficient, readable and correct system software using the C programming language.
2. Write robust, efficient, readable and correct system software using the bash programming language.
3. Demonstrate an understanding of processes and threads by developing applications using multiple processes and multi-threaded activities in a Linux environment.
4. Create a significant Linux-based application, namely a shell program.
5. Describe the interaction among the parts of a gcc “compile”, namely the macro preprocessor, the compiler, the assembler, the linker, the loader and the operating system.

Policies:

• All non-lab programs are due at 11:59pm on the due date.
• No late programs will be graded
• All programs will be submitted through the class Moodle site.
• Except for the start of the term, attendance will not be taken in lecture. However, your attendance is strongly recommended to improve your opportunity to meet course objectives.

**Grading:** The components of your grade will be weighted as follows:

- 1 midterm exams, 20%
- 1 final exam, 30%
- 4 multi-week programming assignments, 30%
- Lab exercises and “minor assignments”, 20%

**Make-Up Policy:**

There will be no make-up exams, quizzes, or programs given in this class. However, for documented *excused absences* or *emergencies* on a day of an exam or a lab the exam and/or lab grades will be replaced by an average of the other exams or lab scores. There is one exception to this rule. Under NO circumstances will more than one exam or two days’ worth of lab scores be replaced by an average of the other scores. For a second missed exam or third missed lab, even if all are excused, students will receive a 0 for any work that day.

**Excused Absences**

Students are expected to schedule routine appointments and activities so as not to conflict with attending class. However, some absences cannot be prevented. In the event of a medical *emergency* or *family* death, students must request an excused absence as quickly as feasible following the emergency. Use common sense. Students must provide documentation that verifies an emergency arose.

**Emergencies**

By definition, emergencies cannot be planned for. Your instructor attempts to make accommodations in these instances that allow for making up missed work and completion of the course in a timely manner. Among these emergencies are:

- A death in your *immediate* family
- An accident or illness requiring immediate medical treatment and where a doctor has indicated attending class is impossible or inadvisable.
- Employees who are on call 24/7 fall in this category but must document that they were called during a scheduled class.

**Collaboration and Cheating:**

On programs, do your own work. Do **NOT** work with other students on shared program solutions. Do **NOT** get help with algorithms or coding from anyone other than Dr. Sweany. Do **NOT** use even partial program solutions from the internet. Failure to adhere to these strict standards will be cause for disciplinary action that could be as severe as expulsion from the university. It **IS** permissible to obtain help from whoever you wish to fix _syntax errors_. And we will be discussing in class the different types of errors that occur in programs.
so there will be ample opportunity for you to learn the difference between syntax and other errors. But remember, for anything but syntax errors, getting programming assistance from any source other than Dr. Sweany will be considered cheating and dealt with harshly.

And, of course you need to do your own work on quizzes and exams as well. Here there should be no ambiguity at all.

In case the above description, and in-class discussion of my views on appropriate and inappropriate collaboration does not answer all of your questions, please look at the university Student Rights and Responsibilities web page.

**SETE**

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

**ADA**

UNT complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disability Act of 1990 (ADA). If you have a disability and need a reasonable accommodation for equal access to education or services please contact the Office of Disability Accommodation.
### Schedule and Topics

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