

Prof: Dr. Peter M. Maurer
Office: Rogers 305F
Phone: 710-7305

Text: David Gries
The Science of Programming

Email: Peter_Maurer@Baylor.edu
Web: <http://cs.ecs.baylor.edu/~maurer>

Office Hours: 8-10&11-12 MWF, 8-11:30 TR

1. Aug 26	Review of Syllabus and Pictures	
2. Aug 28	Propositions and Predicates	Chapter 1
3. Sep 2	Equivalence Transformations	Chapter 2
4. Sep 4	Natural Deduction	Chapter 3
5. Sep 9		
6. Sep 11		
7. Sep 16		
8. Sep 18		
9. Sep 23	Review for Exam	
10. Sep 25	Exam #1	
11. Sep 30	Predicates	Chapter 4
12. Oct 2		
13. Oct 7		
14. Oct 9		
15. Oct 14		
16. Oct 16	Arrays	Chapter 5
17. Oct 21	Assertions	Chapter 6
18. Oct 23	Weakest Precondition	Chapter 7
19. Oct 28	Review	
20. Oct 30	Exam #2	
21. Nov 4	Skip, Abort, Composition	Chapter 8
22. Nov 6	Assignment	Chapter 9
23. Nov 11		
24. Nov 13	Alternative	Chapter 10
25. Nov 18	Iteration	Chapter 11
26. Nov 20		
27. Nov 25	Goal Oriented Programming	Chapter 14
28. Nov 27	Thanksgiving	
29. Dec 2	Developing Invariants	Chapter 16
30. Dec 4	Review	

Final Exam: Tuesday, December 16th 8:00-10:00 AM.

Course Objectives

The primary objective of this course is to train you to think logically about programs. At the end of the course you should be able to construct program proofs, reason precisely about programs, and construct logical arguments of a general nature. These skills will permit you to construct better, more reliable programs, and to detect bugs more easily.

Grading

Exam 1	20%
Exam 2	20%
Final Exam	25%
Homework	25%
Quizzes	10%

Attendance

You are expected to attend every class.

You are responsible for all material given in class, even if it isn't in the book. If you miss class, it is your responsibility to obtain the missed material from another student. Lecture material will not be repeated.

Six cuts equals an F. If you're smart, you won't even get close to this.

DO NOT COME LATE!

DO NOT LEAVE EARLY!

Cell Phones

Turn it off. If it rings, *DON'T ANSWER IT!*

Seating

Sit wherever you want. I will take your picture at the beginning of the semester and print the pictures on my class roll. If you're present, I'll know it, if you're not, I'll know that too.

Class Participation

You are expected to read the material before class and be able to discuss it and answer questions in class. Failure to participate in class discussion, in particular answering questions in a way that makes it clear that you have not read the material, will result in loss of points for the "Quizzes" portion of your grade.

Homework

Do it. Do it all. Do it *yourself*.

Do *extra* homework even if it wasn't assigned.

I don't care if you have an IQ of 256. If you don't do the homework, you won't pass the tests.

Quizzes

Tuesday is quiz day. Come prepared. Quizzes may be cumulative.

Wait a minute ...

Today is Tuesday.

Here's your quiz.

Three men who came to a hotel where there was only one vacant room. The desk clerk told them that there were three beds in the room, and if they wanted to rent it together the price would be \$30. The men agreed, and each paid \$10. Later that evening the desk clerk discovered that he had overcharged the men and the price of the room was actually only \$25. He sent the bell boy up to the room with a refund of five one-dollar bills. Since it was impossible to divide \$5 three ways and have it come out even, the men agreed to take one dollar each and give the two remaining dollars to the bell boy. A bit later, one of the men who fancied himself to be good at figures said, "We've been ripped off!" He explained it thus. "After the refund we each paid \$9, that's \$27 total. If we add the \$2 for the bell boy, that gives us only \$29."

What happened to the other dollar?