COSC 445   COMPILER CONSTRUCTION   WINTER 2010

T Th 9:00 - 10:15 AM   301 PH

Instructor: Professor Haynes   shaynes@emich.edu
                                    emunix.emich.edu/~haynes

Course site: http://emunix.emich.edu/445/wi10

Course communication: primarily through your emich mail.

Office: 511 E PH   T Th 2:30 - 3:30 pm
                         W 9:00 - 1:00 pm

Text: Watts & Brown, *Programming Language Processors in Java,* Prentice Hall

References:
    Cooper & Torczon, *Engineering a Compiler*, Morgan Kaufmann
    Aho, Lam, Sethi & Ullman, *Compilers: Principles, Techniques and Tools*, Addison Wesley (the dragon book)

Catalog Description: Review of programming language structures, translation, loading, execution and storage allocation. Compilation of simple statements. Organization and overall design of a compiler. Use of compiler writing languages.

The above official description is unbelievably lame and desperately needs to be updated. You will be learning all phases of compiler design: syntactic analysis, semantic analysis, and code generation. We'll pay special attention to algorithms and data structures. If we have time, we'll end the class with code optimization.

You will be writing a compiler, at least the bones of one. And more.

Student work and assessment:
        Programs: 40%
        Weekly quiz: 25% (lowest one dropped, no makeups)
        Midterm: 15% (Feb 25)
        Final (cumulative):   20% (Thursday, April 22 9:00 - 10:30 am)

Grades:
91 – 100%   A range
81 – 90 %   B range
71 – 80%   C range
61 – 70%   D range

Academic Honesty: I expect, and your fellow students expect, that every person in this class will adhere to the highest ethical standards. All work handed in to me must be your own independent work unless otherwise specified. If you act in an academically or ethically dishonest manner, you will receive an E for the final grade and I will submit your name to the dean of students for dismissal or academic sanction from this university.

CAVEAT: This document may be modified, with appropriate notification to students, as pedagogically necessary or advisable.