

NORTHERN MICHIGAN UNIVERSITY  
CS 424-01-05W  
WINTER 2005  
COMPILERS: THEORY AND PRACTICE

4 credits

Monday Wednesday Friday 11:00–11:50 A.M.

Monday 17 January 2005 through Friday 29 April 2005, except Monday 7 March 2005 through Friday 11 March 2005

Final Exam: Thursday 5 May 2005 10:00–11:50 A.M.

3806 West Science

Instructor: Andy Poe, 1129 New Science Facility, 227-1598

This course is primarily a programming course. In the course of the semester, each student will write a compiler for a language that s/he designs. The course will also cover language and parser theory sufficient to write this compiler. Ideally, the designed language will be able to parse conditional statements, loops, methods, conditional compilation, and include files.

Text: *Compilers: Principles, Techniques, and Tools*, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman

*Lex & Yacc*, Second Edition, John R. Levine, Tony Mason, Doug Brown

You may be able to obtain these books cheaply on the Internet. I recommend <http://www.bookpool.com>. Of these two books, the most important will be *Lex & Yacc*. If you can only afford one book, this is the one to get.

Courseload: As this is a project course, there will be no exams. The grade will be based on a large number of difficult written and programming projects.

Office Hours: I will be available from 2:00–4:50 P.M. every day except Tuesday. You are always free to make appointments for other hours, or to stop by if I happen to be in.

Disability: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office located in Room 1104 of the University Center (227-1700; TTY 227-1543). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.