

BU CAS CS 525: Compiler Design

(Syllabus)

- **Semester** Spring 2005
- **Instructor:** Hongwei Xi
- **Lecture Times:** MWF 3-4PM
- **Classroom:** BRB 122 @ 5 Cummington Street
- **Textbook:** *Modern Compiler Implementation in Java* by Andrew Appel with Jens Palsberg. Second Edition. ISBN 0-521-82060-X. Cambridge University Press.
- **Homepage:** <http://www.cs.bu.edu/~hwxi/academic/courses/CS525.html>
- **Overview:** *Compiler Design* is a course that introduces students to some basics in the design and implementation of compilers. In this course, we are to teach the theory behind various components of a compiler, the programming techniques involved to put the theory into practice, and the interfaces used to modularize the compiler. In particular, we choose Java as the implementation language, allowing students to learn first-handedly as to how object-oriented programming can be used effectively in constructing (relatively) large programs.
- **Grades** The final score is calculated using the following formula.

$$\text{final score} = 50\% \cdot (\text{homework}) + 20\% \cdot (\text{midterm}) + 30\% \cdot (\text{final})$$

The final letter grade is calculated as follows.

- **A:** final score is 80% or above
 - **B:** final score is 70% or above
 - **C:** final score is 60% or above
 - **D:** final score is 50% or above
- **Academic Integrity:** We adhere strictly to the standard BU guidelines for academic integrity. For this course, it is perfectly acceptable for you to discuss the general concepts and principles behind an assignment with other students. However, it is not proper, without prior authorization of the instructor, to arrive at collective solutions. In such a case, each student is expected to develop, write up and hand in an individual solution and, in doing so, gain a sufficient understanding of the problem so as to be able to explain it adequately to the instructor. Under *no* circumstances should a student copy, partly or wholly, the completed solution of another student.