

BU CAS CS 591: Programming Languages

(Syllabus)

- **Semester** Spring 2003
- **Instructor:** Hongwei Xi
- **Lecture Times:** M 3-6PM
- **Office Hours:** M 1-3PM and W 3-4PM
- **Classroom:** STH B22 @ 745 Comm. Ave.
- **Homepage:** <http://www.cs.bu.edu/~hwxi/academic/courses/CS591.html>
- *Computation and Deduction* is a course that explores the theory of programming languages using deductive systems. We use such systems to specify, implement, and verify properties of functional and logic programming languages. The deductive approach to the specification of programming languages has become standard practice, and one of the goals of this course is to provide a good working knowledge of how to engineer such language descriptions. Throughout the course we will use Twelf as a uniform meta-language in which we can express specification, implementation, and meta-theory of the object languages we are considering. An implementation of Twelf and examples will be available on-line for experimentation.
- **Grades** The final score is calculated using the following formula.

$$\text{final score} = 40\% \cdot (\text{homework}) + 20\% \cdot (\text{midterm}) + 40\% \cdot (\text{final})$$

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