COSC 6352 - Declarative Programming Languages

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Office Hours for Fall 2008: TBA

This is a principles of programming languages and paradigms course, which will emphasize the functional, equational/rule-based programming paradigms and the principles of object-oriented paradigms. I will cover the various programming language paradigms and their differences. For each paradigm we will study the main features and some pragmatic issues. Examples will be drawn from one or two programming languages for each paradigm. Specifically, we will study C++/Java for the object-oriented paradigm, ML for functional and EQL for rule-based programming. Among other things, it is expected that with this knowledge students will be able to learn new programming languages faster, use the programming languages that they already know more effectively, and choose the most-suitable language when given any problem or application.

Grading: 2 Homeworks (10%), 1 Program (15%), 1 midterm (20%), 1 presentation and term paper (15%) and a final exam (40%). Weights are approximate and subject to change.

Academic Honesty Policy: Assistance of or Collaboration with any animate or inanimate object (except the instructor) is completely disallowed on all exams, the programming assignment and the term paper. Any violation will be severely penalized with the minimum penalty on FIRST violation being an F grade.