

CIS 410/510: Object-Oriented Languages and Systems

Spring 2008 Syllabus

Meeting Times:M-W, 2-3:30pm, DES 260

Instructor: Yannis Smaragdakis, DES 245, 541-346 3473
yannis@cs.uoregon.edu
Office Hours: right before class or by appointment

Prerequisites: You should have knowledge of programming languages equivalent to an undergraduate PL (survey) course and fluency in at least one OO language.

Grading: 50% exams (20%+30% or 15%+15%+20%)
30% homeworks
10% presentation or larger HW (depending on schedule)
10% class participation

Other Resources:

Web page:

<http://www.cs.uoregon.edu/classes/08S/cis410ool/>

Course Outline:

The course will cover an extensive sample of work from the Object-Oriented Systems and Languages literature—mostly the OOPSLA and ECOOP conferences. Areas to cover include:

Introduction, contrast of language features in OO languages

Design Patterns—a critical view and analysis

Aspect-Oriented Programming

Language implementation issues: efficient dynamic dispatch, multiple inheritance and object layout, garbage collection for Java

OO Type Systems: parameterization mechanisms for Java, virtual types, module systems

Reading Material:

There is no textbook for this course. I will use papers from the literature and I will pass out my notes.

Exams: All exams are closed-books, closed-notes.
Midterm date(s): TBD (make sure you don't miss announcement!)
Final Exam: in regular exam period

Homework and Assignment Due Times:

Non-programming homeworks are due by class time on the due date (either by email before class or as hardcopy in class). Programming homeworks (by email) are due by midnight (11:59pm) of the due date.