# Language Processing Systems
# Overview of the Course

**Hitoshi Oi**

**The University of Aizu**

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AY2006, 2nd Semester

## Basic Course Information

**#927 Language Processing Systems**

**Instructor** Hitoshi Oi, `hitoshi@u-aizu.ac.jp`, ext 2580

**Office Hours** TBD or by appointment, at 242-C

**Textbook** "Engineering a Compiler", by Keith D. Cooper and Linda Torczon, Published by Morgan Kaufmann.

**Web site** `http://www.u-aizu.ac.jp/~hitoshi/COURSES/LP06/`

**Course Assistant** Masato Kido, `s1110071@u-aizu.ac.jp`

# Grading Schemes and Policies

Information in this slide is subject to change. Keep checking the course web site.

**Grading Scheme**

$$\text{Final Grade} = \text{Midterm Exam } (25\%) + \text{Final Exam } (35\%)$$
$$+ \text{ Exercises } (40\%)$$

**Late Submissions** Exercise problems must be submitted by the end of the exercise class time in which the problems are given. A late submission is accepted by the end of next week's lecture with a penalty of 50% point reduction.

**Exam Policies** Only the textbook and handouts can be used during the exams.

# Rough Course Schedule

**Today** Course Overview and Introduction to compilers.

**Next Four to Five Weeks** Scanner: dividing the source code into meaningful chunks (tokens).

**Mid-term Exam**

**Next Four to Five Weeks** Parser: building legal sentences using the grammar and tokens from the scanner.

**Final Exam**

As shown above, emphasis is placed on the front-end part of the compilers in this class. However, we also cover some topic related to the back-end of the compiler (such as register allocation).

# Advices on Taking This Course

**Textbook** Get your own copy and read the corresponding sections (Only 27 students ordered so far).

**Lecture Slides** We will use the slides prepared by the author of the textbook. You will need to down load and make a hard copy of the slides corresponding to each lecture.

**Class Attendance** Come to class and ask questions (so you need to be prepared to ask questions). Attendance will be checked but will be used only for extra credit.

**Use The Instructor** Ask question during the class and the office hours as well.

# About The Instructor

- Assistant Professor in the Operating Systems Laboratory

- Areas of research interests:

  – Computer architecture and operating systems

  – Performance evaluation and workload analysis

  – Microprocessor design

  – VLSI design and verification

- Students having interests in the above areas are welcome to join our group.

- We will start a study group from October 3 (every Tuesday) at 7pm.

Continue to the lecture slides...