CSE 105 - Introduction to the Theory of Computation  
Section A, Fall 2001

Instructor: Valentine Kabanets, email: kabanets@cs.ucsd.edu

Lectures: Tue and Thu 9:35–10:55 am, in HSS 2250

Instructor’s office hours: Thu 11:15-12:15 in APM 4121

TAs: Vagelis Hritsidis, Min Qian, Dan Liu, and Eric Wierwora.

Discussions: Mon 11:15–12:05 and 4:40–5:30 pm in CSB 002, and Wed 11:15–12:05 in CSB 002

TA office hours: Wed 5-6 pm in APM 2331 (Vagelis), and Fri 1-2 pm in APM 2331 (Dan)

Course web page: www-cse.ucsd.edu/classes/fa01/cse105.A/
Please refer to this page regularly for important information related to the course.

Prerequisites: Any of CSE 8B, 9B, 10, 65, 62B, and any of CSE20, 160A, Math 15A, 109, 100A, 103A.


Course outline:

- Regular expressions/finite automata (Chap. 1)
- Context-free grammars/pushdown automata (Chap. 2)
- Computability (Chap. 3)
- Decidability, reducibility, and the Halting Problem (Chaps. 4, 5)
- Computational complexity and NP-completeness (Chap. 7)

Marking scheme:
3 closed-book quizzes, worth 20% each and final exam, worth 40%.

Homeworks will be handed out, but they will not be graded. These homeworks will be followed by a closely related quiz in class, one week later. The solutions to the homeworks will be provided before the quizzes. The students are welcome to discuss the homeworks with each other.

Academic honesty: Cheating on a quiz or exam will be grounds for failing the class (F grade).