

**ECS 20 – Discrete Mathematics for Computer Science, Winter 2008**  
**Course Information**

Lectures: TR, 12:10 – 1:30 pm, 184 Young.

Discussion: Fri, 9:00-9:50 am, 106 Olson.

Instructor: Vladimir Filkov, [filkov@cs.ucdavis.edu](mailto:filkov@cs.ucdavis.edu).

Office: 3023 Kemper Hall, Hours: Tue 1:30-3p, Fri 1-3 pm.

Teaching Assistants: Sean Williams, Office and Hours: TBA.

Spencer Matthews, Office and Hours: TBA.

Text: Discrete Mathematics and Its Applications, 6th Edition, by Kenneth H. Rosen.

**Other Course Material:**

Web page and announcements: <http://www.cs.ucdavis.edu/~filkov/classes/20-W08>

Discussion groups:

**ucd.class.ecs20** – for me and the TAs to communicate things to you.

**ucd.class.ecs20.d** – this is for you to discuss the class. Don't post solutions!

**Goals:** The goals for a Discrete Mathematics course for computer scientists are two fold. The first is to teach you the basic elements of discrete mathematics, like predicate logic, induction proofs, recursive definitions, functions, counting, graphs, and all the other cool stuff we will talk about this quarter, and with them also ways to recognize them in everyday problems. That in itself is very interesting as all those topics are in one way or another related to many disciplines in computer science, and programming in particular. But the second goal is equally, if not more important: to engage you in thinking about and generating mathematical proofs, which besides being intellectually stimulating, sets the pace for more advanced classes and research work. I hope we will achieve both goals and that you will enjoy them equally.

**Grading Policy:** The final grade will be based on your grades on the homework, a midterm, quizzes, and the final, weighted as follows:

Final exam: 35%,

Midterm: 25%,

Homework: 30%,

Quizzes: 5%.

**Exams:** There will be one **midterm exam**, in class, on **Tuesday, February 12**. The final will be on **Saturday, March 22, 1-3pm, in 184 Young**. All quizzes and exams will be closed book and only a page of notes will be allowed for recollection. There will be **two 20 minute quizzes**, possibly unannounced. Makeup quizzes will not be allowed.

**Homework Problems:** We will assign about eight homework sets. Your solutions must be submitted in the ECS 20 homework box in Kemper Hall, room 2131 by the due date and time. No submissions will be accepted in class, discussion or office hours. We will typically grade only a subset of the assigned problems. Your writing should be clean and legible. Points may be taken off if we cannot read your papers. You will have a week after the homework is returned to request a re-grading if you feel it is necessary.

**Collaboration:** Collaboration on homework problems is encouraged to the extent that it helps you learn how to solve them for yourself. But if you use someone else's ideas to solve the homework you should properly give them credit. That will not affect your grade. Otherwise, copying of any kind on the homework, quizzes, or exams will be dealt in accordance with our school's academic dishonesty policy.

**Help:** If you have homework questions please see us in person or use the newsgroup. We will not normally respond to homework questions via email.