This is an introductory course in statistical mechanics. There will be 28 hours of lectures and 28 hours of tutorials. The lectures will be taught in English. I will teach the lectures and one of the tutorials. The other tutorials will be taught by Lisa Freyhult and Mikael Smedbäck.

The text is *Statistical Physics* by Mandl. We will cover most of the book in this course.

You will find the lectures easier to follow if you do the reading beforehand. *I strongly encourage you to ask questions during the lecture.* If you don’t understand something, then it is likely that many of your classmates do not understand it either. They will be pleased that you spoke up.

The tutorials are devoted to solving problems. You will receive a list of problems for the tutorials about a week before they are discussed. Some of the problems come from the book, but not all of them. You are strongly encouraged to make a serious attempt at doing the problems before they are reviewed in the tutorials. Although you are not required to do so, you will find yourself better prepared for the exam if you make a concerted effort to do at least some of the problems yourself. You are also strongly *encouraged to ask any questions* you might have during the tutorials.

The exam is scheduled for 12 December 2003. This will be a 5 hour exam with 5 problems chosen from different topics in this course. Your grade will be determined by your performance on the exam. You will be responsible for all material covered in this course.

There is a website for the course at http://www.teorfys.uu.se/PEOPLE/minahan/Courses/Statmech where you can find the assigned problems as well as any schedule changes.
Schedule (still subject to change)

We learn by practice
Martha Graham

Lecture No. 1, Reading: 1
Lecture No. 2, Reading: 2
Lecture No. 3, Reading: 2, 3.1
Lecture No. 4, Reading: 4
Lecture No. 5, Reading: 4
Lecture No. 6, Reading: 6
Lecture No. 7, Reading: 7
Lecture No. 8, Reading: 7
Lecture No. 9, Reading: 9,10
Lecture No. 10, Reading: 11
Lecture No. 11, Reading: 11
Lecture No. 12, Reading: 8, handout
Lecture No. 13, Reading: 8, handout
Lecture No. 14, Review