Instructor: Nurit Haspel
http://www.cs.umb.edu/~nurith
nurith@cs.umb.edu or nurit.haspel@umb.edu
Phone – 617-287-6414.
Office – S-3-071
Office hours - Mo We 2:30–3:50 or by appointment.
Course schedule: Mo We 4:00–5:15, M-1-209
TA: Ramin Dehghanpour, ramin.dehghanpoor001@umb.edu
Course Description (not necessarily in order)

- Methods for structuring and manipulating data in computing.
- Application program interface (API), data abstraction and encapsulation.
- Design and analysis of algorithms, including theoretical background.
- Algorithmic techniques – greedy algorithms, dynamic programming etc.
- Graph theory and applications.
- Introduction to computability (if time allows)
- Throughout the entire course we will study advanced techniques for program development and organization.
The course material will be available online and updated regularly with class notes and assignments.

Attendance is not required (but highly encouraged). **You are responsible for keeping yourselves up to date if you miss a class.**

Don’t be afraid to ask questions in or out of class. I highly encourage it, I won’t think you are stupid and it won’t lower your grade.

Don’t hesitate to send me e-mails. I expect e-mails. It won’t lower your grade.

In your e-mails be as specific and give as many details as possible.

However, don’t expect me to solve your homework for you or debug your code.
Course Requirements

- Prerequisite: CS210, CS240, MATH140 or equivalent.
- Homework (written) and programming assignments approx. every two weeks (15% each).
- Midterm exam (30%), final exam (40%).
- First homework posted online. Due next Tuesday.
• Your final grade should be at least D- (at least 40) to pass.
• You also have to pass the final exam.
• Algorithms Design, by Jon Kleinberg and Eva Tardos.
• Notice change from last year!
• Recommended books: CLRS 3rd edition, “Algorithm design manual” by Steven Skiena (see course webpage). The CS210 Algorithms book will also be useful later on in the course.
Apply for an account with the course ASAP.
You will join the mailing list and get a subdirectory where pa’s can be submitted.
Mails will be sent to your CS account (unixname@cs.umb.edu). **Make sure you check it regularly.**
Look at the homework assignment (due in 10 days).
If you have a problem solving the homework – talk to me ASAP.