Midterm

The MIDTERM will be Tuesday, May 7 in class:
109 Robinson from 9:50 – 11:30am
Open book and notes

Material covered on the exam will include:

- Lecture Material through Thursday May 2.
- All homework and programming assignments.
- Book:
  - Chapter 1
  - Chapter 2: Sections 2.2.1, 2.2.2, Section 2.3.1, 2.3.2, 2.3.3, 2.4.4
  - Chapter 3: 3.1, 3.2, 3.3.4, 3.4, 3.5, 3.6, 3.7
  - Chapter 4: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
  - Chapter 5: 5.1, 5.2, 5.3, 5.4.3, 5.4.4

Topics will include:

- The design flow from abstract behavioral description to RTL
- Circuit representations including SystemC, intermediate forms, sequencing graphs
- Algorithms and complexity
- Sequencing graph based optimizations
- Area and delay estimation
- Scheduling Algorithms: ASAP, ALAP, list scheduling, force directed scheduling

Here are some book problems to study from. Translate all VHDL problems to SystemC problems.

- Chapter 3: 2, 3, 6, 7, 8
- Chapter 4: 1, 4, 5, 8
- Chapter 5: 1, 2, 9, 10