Nanoscale Science and Applications – Spring 2006
(UAB: PH 487/587; UA: PH 495/595)

Assignment # 1

Due: Wednesday, January 18

Options for turning in assignment:

a. Hand-deliver to Camata in class.
b. Type in MS Word document and email to camata@uab.edu.
c. Fax to (205) 934-8042 (Attn: Camata)

1. (10 pts) Read Sections 1.1, 1.2, and 1.3 in textbook and prepare a 1-page summary of the main Nanolithography concepts discussed.

2. (10 pts) Discuss the relevance of a clear understanding of the electromagnetic spectrum as one considers systems and processes at the nanoscale.

3. (10 pts) Describe the photolithographic process known as Optical Projection Lithography.

4. (10 pts) Contrast the processes of contact printing, proximity printing, and projection printing.