**SCHEDULE PHY4523 Spring 2013**

**(Tentative schedule, – the schedule may change during the semester and will be updated)**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Subject | Textbook Chapters | AssignmentsHomework Problems |
| Jan. 7-9 | Thermodynamics | Chap. 1 | 3, 4, 6, 7,10 [Due Jan. 16] |
| Jan. 11-14 | Entropy & 2nd Law | Chap. 2 | 8, 9, 16, 18, 20 [Due Jan. 23]  |
| Jan. 14-16 | Probability/Statistics | Chap. 3 |  10, 11, 13, 17 [Due Jan. 25]  |
| Jan. 18-20 | Microstates | Chap. 4 |  6, 8, 9, 11, 13 [Due Jan. 28] |
| Jan. 23 |  |  | **QUIZ Chap. 1 - 2** |
| *Jan. 21* | *MLK Day (no class)* |  |  |
| Jan. 23-28 | Canonical Ensemble | Chap. 5 |  7, 12, 16, 17, 21 [Due Feb.4] |
| Feb. 4 |  |  | **QUIZ Chap. 3 - 4** |
| Feb. 1-11 | Identical Particles | Chap. 6 | 2, 4, 6, 7, 9 [Due Feb. 15]  |
| *Feb. 13* | ***Exam 1*** |  | ***Chap. 1-5*** |
| Feb. 13-18 | Maxwell Distribution | Chap. 7 | 3, 6, 11, 17 [Due Feb. 20] |
| Feb. 20 |  |  | **QUIZ Chap. 5 - 6** |
| Feb. 20-25 | Planck’s Distribution | Chap. 8 | 1, 4, 6, 12 [Due Feb.25] |
| Feb. 27 - Mar.1  | Chemical Potential | Chap. 9 |  2, 6, 8, 9 [Due Mar. 13]  |
| Mar. 1 |  |  | **QUIZ Chap. 7 - 8** |
| Mar. 1-11 | Fermi & Bose particles | Chap. 10 |  |
| *Mar. 4 -8* | *Spring Break (no class)* |  |  |
| Mar. 11-13 | Fermi & Bose Particles | Chap. 10 | 2, 3, 8, 14 [Due Mar. 22] |
| *Mar. 15* | *Exam 2* |  | *Chap. 6-9* |
| Mar. 13-15 | Phase Transitions | Chap. 11 | 1, 2, 4, 5 [Due Apr. 5] |
| *Mar. 18- 20* | *March Meeting of APS* | *No Classes* |  |
| Mar. 29 |  |  | **QUIZ Chap. 9-10** |
| Mar. 22- Apr. 3 | Continuous Phase Transitions | Chap. 12 |  2, 3, 6, 7 [Due Apr 12]  |
| Apr. 5-12 | Ginsburg-Landau Theory | Chap. 13 |  1, 3, 4, 5 [Due Apr. 17] |
| *Apr 15* | *Exam 3*  |  | *Chap. 10-12* |
| Apr. 17-19 | Special Topics |  | Apl 19 Optional Chap 13 HMWK  |
| *Apr. 25-26* | *Reading Days* |  |  |
| Apr. 29 |  |  | Paper due |