

**Math 4050/6050 Homework Assignments**  
**Dr. Shuzhou Wang**

**Required Textbook:** **Linear Algebra** (4th ed), Stephen H. Friedberg, Arnold J. Insel, Lawrence E. Spence

**Note:**

1. Exercises that are labelled with a dagger † will be needed later in the course.
2. I suggest reviewing the true/false questions which appear as exercise 1 for each section. Their answers are in the back of the book.

**HW 1:** due 6/15/2006 in class

- 1.2: 10, 18  
1.3: 8, 13, 20  
1.4: 8, 11, 12, 13  
1.5: 5, 9, 15, 16, 17  
1.6: 4, 13, 20

**HW 2:** due 6/23/2006 in class

- 2.1: 4, 5, 9 (a) (b), 14  
2.2: 3, 5(b), 8, 11, 14  
2.3: 4(b), 12, 15  
2.4: 9, 17  
2.5: 3(a)(c), 6(a)(c), 13  
3.2: 5(c)(g)

**HW 3:** due 6/30/2006 in class

- 5.1: 3(a)(c), 11, 20, 22, 23  
5.2: 3(c)(d), 7, 11, 12, 22  
5.4: 2(b)(c), 3, 11, 13, 14, 15, 21

**HW 4:** due 7/12/2006 in class

- 6.1: 5, 9, 10, 11, 12, 17, 20, 21  
6.2: 2(b)(c), 6, 7, 11, 13  
6.3: 3(a)(c), 8, 10, 12 (cf. 6.2.12, 6.3.17), 14

**HW 5:** due 7/19/2006 in class

- 6.4: 8, 9, 10, 11, 16, 17(a)(b)(c)  
6.5: 2(a), 3, 4, 8, 10, 27  
6.6: 4, 6, 7, 8, 10

**HW 6:** due 7/28/2006 in class

- 7.1: 2(a)(c), 3(a)(c), 4, 7(e)  
7.2: 2, 3, 4(a)(d), 6, 12, 13(d), 17, 24 **and** 5.2: 14(b), 15  
In 7.2.13(d), you may assume  $\mathbb{F} = \mathbb{C}$   
7.3: 2(a)(d), 10, 13