PRESENTATION TOPICS:

1. CW complex structure on $\mathbb{C}P^n$ (pages 6-7)*
2. Torus knots (pages 47-49)*
3. Borsuk-Ulam Theorem (Theorems 1.10 and Corollary 1.11, pages 32-33)
4. Cayley graphs and complexes (pages 77-78)*JB
5. K(G,1) and graphs of groups (pages 87-95)
6. Graph of groups (pages 91-93)
7. Homology of Lens spaces (pages 144-146)*KG
8. 1-Homology and the fundamental group (pages 166-168)*FC
9. Alexander Horned Spere (pages 170-172)
10. Division Algebras (pages 173-174)*NT

* means that the topic is taken

Home Work 1 Chapter 0
Exercises: 1, 2, 3, 9, 10, 14, 16, 17, 18, 20.

Home Work 2 Chapter 1, Section 1.1
Exercises: 2, 5, 10, 14, 16, 17.

Home Work 3 Chapter 1, Section 1.2
Exercises: 1, 2, 3, 4, 7, 8, 9, 12, 17.

Home Work 4 Chapter 1, Section 1.3
Exercises: 2, 3, 4, 8, 9, 10, 14, 20.

Home Work 5 Chapter 2, Section 2.1
Exercises: 1, 2, 4, 5, 11, 14, 17, 29.

EXTRA CREDIT:

Credit for *-problems will be given to first 4 persons who bring a correct solution to my office. Then the problem will be removed from the list.

Problem 1*[# of claims left - 2](2pts) Exercise 19 Chapter 0
Problem 2*[# of claims left - 4](3pts) Exercise 7 Chapter 0
Problem 3*[# of claims left - 4](3pts) Exercise 6b Chapter 0
Problem 4*[# of claims left - 4](3pts) Prove that the dunce hat is contractible

Problem 5*[# of claims left - 4](5pts) Exercise 10 Chapter 1, Section 1.2

Problem 6*[# of claims left - 4](4pts) Exercise 16 Chapter 1, Section 1.2

Problem 7*[# of claims left - 4](3pts) Exercise 6 Chapter 1, Section 1.3

Problem 8*[# of claims left - 4](3pts) Exercise 7 Chapter 2, Section 2.1