Chapter 24 – Genes and Chromosomes

24.1 Chromosomal Elements

* All sub-sections are important

24.2 DNA Supercoiling

The following sub-sections are important:

* The Introduction
* Topoisomerases Catalyze Changes in the Linking Number of DNA. There is more detail in this section than you need to know, the lecture notes and the homework

on topoisomerases contains all the info you need to know on topoisomerases.

* DNA Compaction Requires a Special from of Supercoiling

24.3 The Structure of Chromosomes

The following sub-sections are important:

* The Introduction
* Chromatin Consists of DNA and Proteins
* Histones are Small, Basic Proteins
* Nucleosomes are Fundamental Organizational Units of Chromatin
* Nucleosomes are Packed into Highly Condensed Chromosome Structures
* Condensed Chromosome Structures Are Maintained by SMC Proteins