

Introduction to Bioinformatics

Material for Exam #1

Questions for each of the exams will be taken (with some modification) from the various Problem Sets, Study Questions, and tours covered since the last exam (or, in the case of Exam #1, since the beginning of the semester). For Exam #1, the following are fair game:

Problem Set 1: Introduction to Molecular Biology

Problem Set 2: Molecular Investigations

Problem Set 3: Genomic sequencing

Study Questions from notes for:

Strategies of Life

Proteins

Flow of Information

Where genome sequences come from

Myers et al tour

Tour #1 – *What are Genes?*

Tour #2 – *Alien Genetic Code*

Tour #3 – *On the topology of the Genetic Fine Structure* (Benzer)

Tour #4 – *A whole genome assembly of Drosophila* (Myers et al)

Tour #5 – *Discovery of mRNA* (Belozersky and Spirin)

... and that's it. If you can solve these problems and answer the questions, you should be able to do the same readily on the exam.

For more, see *Course at a Glance, Objectives and Strategies, Integrative Exams*