

## **COURSE SYLLABUS FORM**

**American University of Beirut  
Faculty of Arts and Sciences  
Department Biology**

**Course Number and Title: BIOL 223 Laboratory - Genetics**

### **Genetics Laboratory**

<b>Week</b>	<b>Topic</b>
1	Laws of Probability
2	Simple Mendelian Genetics in Humans: Pedigree Analysis
3	Monohybrid & Dihybrid Cross
4	Extension of Mendelism: Gene Interactions in Maize
5	Human Karyotype Analysis
6	Preparation of Bacterial DNA
7	Preparation of Genomic DNA
8	Agarose Gel Electrophoresis and Polymerase Chain Reaction
9	Bacterial Transformation of <i>E.coli</i>
10	Bacterial Conjugation
11	Population Genetics

**The sites relevant to our lab can be viewed on the following address:**

**<http://www.aub.edu.lb/biology/Links/Genetics/Bio223lab.htm>**

### **5. Course Policy**

Students are expected to attend all classes and laboratory sessions. If you miss 2 labs, you will be automatically dropped from the course.

No make-up exams unless accompanied with a valid medical excuse from AUB health centers.