

Topics in BIOLOGY			
Date	Lectures	Chapter. Nr.	Seminar topics
1st week: September 07 - 11	Proteins, carbohydrates and lipids 1.	3	Ch. 3
	Proteins, carbohydrates and lipids 2.	3	
	Proteins, carbohydrates and lipids 3.	3	
	Proteins, carbohydrates and lipids 4.	3	
2nd week: September 14 - 18	Nucleic acids 1.	4	Chapters 3,4
	Nucleic acids 2.	4	
	Cells: the working units of life 1./Prokaryotes*	5/24*	
	Cells: the working units of life 2.	5	
3rd week: September 21 - 25	Cells: the working units of life 3.	5	Chapters: 5
	Cells: the working units of life 4.	5	
	Cell membranes 1.	6	
	Cell membranes 2.	6	
4th week: September 28 - October 02	Cell membranes 3.	6	Chapters: 6
	Cell membranes 4.	6	
	Summary/Discussion Chs. 3.,4.,5.		
	Summary/Discussion Chs. 3.,4.,5.		
5th week: October 05 - 09	Energy, enzymes and metabolism 1.	8	Chapters: 6,8
	Energy, enzymes and metabolism 2.	8	
	Energy, enzymes and metabolism 3.	8	
	Energy, enzymes and metabolism 4.	8	
SCT1 09.October 18:00		Required Chapters: 3.,4.,5.	
6th week: October 12 - 16	Pathways that harvest chemical energy 1.	9	Chapters: 8,9
	Pathways that harvest chemical energy 2.	9	
	Pathways that harvest chemical energy 3.	9	
	Pathways that harvest chemical energy 4.	9	
7th week: October 19 - 23 23. October is a Holiday	Summary/Discussion Chs. 6.,8.,9.		Chapters: 9
	Summary/Discussion Chs. 6.,8.,9.		
	Cell cycle and cell division 1.	11	
	Cell cycle and cell division 2.	11	
8th week: October 26 - October 30	Cell cycle and cell division 3.	11	Chapters: 11
	Cell cycle and cell division 4.	11	
	Inheritance, genes and chromosomes 1.	12	
	Inheritance, genes and chromosomes 2.	12	
SCT2 30. October 18:00		Required Chapters: 6.,8.,9.	
9th week: November 02 - 06	Inheritance, genes and chromosomes 3.	12	Chapters: 12
	Inheritance, genes and chromosomes 4.	12	
	Inheritance, genes and chromosomes 5.	12	
	Population Genetics*	19	
10th week: November 09 - 13	DNA and its role in heredity 1.	13	Chapters: 12/19
	DNA and its role in heredity 2.	13	
	DNA and its role in heredity 3.	13	
	Summary/Discussion Chs. 11.,12.,13.		
11th week: November 16 - 20	Summary/Discussion Chs. 11.,12.,13.		Chapters: 13,14
	From DNA to protein: gene expression 1.	14	
	From DNA to protein: gene expression 2.	14	
	From DNA to protein: gene expression 3.	14	
SCT3 30. November 18:00		Required Chapters: 11.,12.,13.	
12th week: November 23 - 27	From DNA to protein: gene expression 4.	14	Chapters: 14
	Gene mutation and molecular medicine 1.	15	
	Gene mutation and molecular medicine 2.	15	
	Gene mutation and molecular medicine 3.	15	
13th week: November 30 - December 04	Regulation of gene expression 1.	16	Chapters: 15
	Regulation of gene expression 2.	16	
	Regulation of gene expression 3.	16	
	Regulation of gene expression 4.	16	
14th week: December 07 - 11	Cellular signaling and communication 1.	7	Chapters: 16,7
	Cellular signaling and communication 2.	7	
SCT4; 10. December 16:00		Required Chapters: 14.,15.,16.	

5/24*: only a part of Chapter 24 is required, what is explained on the lecture
Population Genetics*: it is described in Chapter 19, part 19.3