

COURSE: Cell and Molecular Biology		
DEGREE: Biomedical Engineering	YEAR: 2019	TERM: second semester

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)
1	1	Introduction to cells	X				1,66	6,5
	2	Chemical components of the cell		X			1,66	
2	3	Membrane structure	X				1,66	6,5
	4	Caspase paper discussion		X			1,66	
3	5	Membrane transport	X				1,66	6,5
	6	1st CELL BIOLOGY TEST)	X				1,66	
4	7	Vesicular traffic	x				1,66	6,5
	8	GOLSTEIN & BROWN PAPER DISCUSSION		x			1,66	
5	9	Cell communication I	x				1,66	6,5
	10	Tools to study cells and tissues	x				1,66	
6	11	Cells, Tissues and Organs					1,66	6,5
	12	BIOARTIFICIAL ORGANS PAPER DISCUSSION		X			1,66	
7	13	Cell communication II					1,66	6,5
	14	Whole class tutorial					1,66	
8	15	introduction to molecular biology					1,66	6,5
	16	how cells produce and use energy					1,66	

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			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)
9	17	protein structure					1,66	6,5
	18	protein regulation					1,66	
10	19	dna and chromosomes					1,66	6,5
	20	dna and chromosomes					1,66	
11	21	dna and chromosomes					1,66	6,5
	22	2st MOLECULAR BIOLOGY TEST					1,66	
12	23	rna synthesis and processig					1,66	6,5
	24	rna synthesis and processig					1,66	
13	25	protein synthesis					1,66	6,5
	26	Protein degradation					1,66	
14	27	gene regulation					1,66	6,5
	28	epigenetic control of gene activity					1,66	
	29	Whole class tutorial					1,66	3,25
Subtotal 1							48	94
Total 1 (Hours of class plus student homework)							142	
15		Tutorials, handing in, etc					3,6	-
16	17	Assessment					4	10
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	
TOTAL A (Maximun 160 horas)							160	

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			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)

LABORATORIES CLASSES PROGRAMMING						
WEEK	SESSION	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
	1	Introduction to aseptic work procedures		cell and bacteria cultures	1,66	6,5
	2	Introduction to molecular techniques		DNA isolation and quantification	1,66	
Subtotal 3					3,5	6,5
Total 3 (Hours of class plus student homework)					10	
TOTAL B (Total 3)					10	
TOTAL (Total A + Total B. <i>Maximun 170 horas</i>)					170	