uc3m | Universidad Carlos III de Madrid
Vicerrectorado de Estudios
Apoyo a la docencia y gestión del grado

COURSE: Chemistry		
DEGREE: Biomedical Engineering	YEAR: 1	TERM: 1

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)
1	1	Topic 0: Preliminary Concepts		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	2	Topic 1: Atoms	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
2	3	Exercises Topic 0 and Topic 1		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	4	Topic 2: Molecules. Bonding Theory	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
3	5	Quiz Topic 1; Exercises Topic 2		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	6	Topic 2: Molecules. Bonding Theory	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	

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4	7	Exercises Topic 2		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	8	Topic 3: States of Matter	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
5	9	Quiz Topic 2; Exercises Topic 3 and Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	6,5
	10	Topic 3: States of Matter	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
6	11	Exercises Topic 3 and Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	6,5
	12	Topic 4: Thermochemistry	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
7	13	Exercises Topic 4		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	14	Topic 4: Thermochemistry	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
8	15	Quiz Topic 3; Exercises Topic 4		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5

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8	16	Topic 4: Equilibrium Reactions: Gases	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
9	17	Exercises Topic 4		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	18	Topic 5: Acid-base Equilibria	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
10	19	Quiz Topic 4; Exercises Topic 5 and Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	6,5
	20	Topic 5: Electrochemical Equilibria	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
11	21	Exercises Topic 5		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	22	Topic 6: Chemical Kinetics	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
12	23	Quiz Topic 5; Exercises Topic 6 and Laboratory		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises. Study of the lab guide and elaboration of the practice	1,66	6,5
	24	Topic 7: Introduction to Organic Chemistry	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	

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			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max.Estim. 6,5h)
13	25	Quiz Topic 6; Exercises Topic 7		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	26	Topic 8: Reactions in Organic Chemistry I	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
14	27	Exercises Topic 8		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	6,5
	28	Topic 8: Reactions in Organic Chemistry II	X			Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	
	29	Quiz Topic 7; Exercises Topic 8		X		Work on the taught topic, review of slides and recommended bibliography, and realization of exercises.	1,66	3,25
						Subtotal 1	**48**	**94**
						Total 1 *(Hours of class plus student homework)*	**142**	
15		Tutorials, handing in, etc	X			Tutorial on Topic 8: problems	3,6	-
16								
17		Assessment				Preparation for the quizes and mid-term exam	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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LABORATORIES CLASSES PROGRAMMING

WEEK	SESSION	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
	1				1,66	6,5
	2				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. Maximun 170 horas)*	**170**