

## PRELIMINARY SCHEDULE, KEMM77 2020

Month	Day	Time	Activity	Teacher	Room
Nov	2	9.30-10 10.15-12	Roll call Introduction	ES	
	3	10.15-12	1.1-1.3, 1.7	JS	
	4	10.15-12	1.4-1.5	JS	
	5	10.15-12	1.6	JS	
	6	10.15-12	2.1-2.4	ES	
	9	10.15-12	2.5-2.7	ES	
	10	9.15-11* 11.15-17	3.1-3.2 QCM1, AFM3	JS JG,MD	Phys chem lab
	11	9.15-11* 11.15-17	3.3-3.4 QCM2, AFM4	JS JG,MD	Phys chem lab
	12	9.15-11* 11.15-17	3.5-3.7 QCM3, AFM1	JS JG,MD	Phys chem lab
	13	9.15-11* 11.15-17	3.8-3.9.2 & Computer Lab intro QCM2, AFM2	JS JG,MD	Phys chem lab
	16	10.15-12	4.1, 4.2	AS	
	17	10.15-12	4.3	AS	
	18	10.15-17	Computer ex. electrostatics	HN	TBA
	19	10.15-12	Computer ex. electrostatics	HN	TBA
	20	10.15-12	5.1	JS	
	23	10.15-12	5.2-5.3	JS	
	24	10.15-12	5.4-5.5	JS	
	25	10.15-12	5.6-5.7; Exercises	JS	
	26	10.15-12	7.1-7.2	UO	
	27	10.15-12	7.3	UO	
	30	10.15-12	7.4	UO	
Dec	1	10.15-12 13.15-17	6.1-6.2 DSC1	ES KM	Phys chem lab
	2	10.15-12 13.15-17	6.3 DSC2	ES KM	Phys chem lab
	3	10.15-12	6.4	ES	
	4	8.15-12 13.15-17	Computer ex polymers, group 1 Computer ex polymers, group 2	HN HN	TBA TBA
	7	10.15-12 13.15-17	8.1-8.2 DSC3	AS KM	Phys chem lab
	8	10.15-12 13.15-17	8.3 DSC4	AS KM	Phys chem lab
	9	10.15-12 13.15-17	8.4; exercises CS1	AS MC	Phys chem lab
	10	10.15-12 13.15-17	10.1-10.2 CS2	ES MC	Phys chem lab
	11	10.15-12 13.15-17	10.3 CS3	ES MC	Phys chem lab
	14	10.15-12 13.15-17	10.4 CS4	ES MC	Phys chem lab
	15	10.15-12	11.1	UO	

	16	10.15-12	11.2	UO	
	17	10.15-12	11.3	UO	
	18				
Christmas holidays					
Jan	4				
	5				
	6				
	7	8.15-10	literature exercise		
	8	13.15-17	literature exercise		
Jan	11-15		Oral exam <i>separate schedule</i>	ES & UO	

**\* Lab practical starts at 11.00. If the number of lab groups are reduced, or if the labs are moved, these lectures will instead take place 10.15-12 the same day. Information will be updated after the course has started**

**Literature:** Evans and Wennerström "The colloidal Domain. Where Physics, Chemistry, Biology and Technology Meet". Additionally there is a partly interactive CD based on the material in the book.

#### Teachers

ES: Emma Sparr

AS: Anna Stradner

UO: Ulf Olsson

JS: Joakim Stenhammar

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#### Lab practicals

QCM=Quartz crystal microbalance, Jenifer Gilbert (JG)

AFM = Atomic Force Microscopy, Marija Dubackic(MD)

DSC = Differential Scanning Calorimetry, Katarzyna Makasewicz (KM)

CS = Colloidal Stability, Manto Chouliara (MC)

Computer exercises, Henrik Nordanger (HN)

The lab schedule is based on 4 lab groups (AFM1, DSC1 etc for group 1, AFM2, DSC2 etc for group 2 and so on). Depending on how many students who take the course, the number of groups might be reduced. Information will be update during the first week of the course. **Read the instruction before the lab.** The lab exercises sometimes start with a little quiz. Meeting point lab exercises: Physical chemistry/theoretical chemistry library, floor +2

**Computer exercises** are compulsory for everyone. Read the instructions beforehand!

**Reports:** for labs and computer has to be submitted in within one week after the lab. Before submitting the lab reports, please check the list of minimum requirements. All reports have to be approved before **Jan 29**. Note that the teacher needs some time for the corrections, so submit in good time. No reports will be corrected after Jan 29 until next time we give this course.

**Literature exercise** is compulsory for everyone. This will go over 2 days, and end with oral presentations. More information will be distributed during the course.

**Exam:** The course will end with an oral exam. Four students are examined at the same time, and the exam takes ca. 2 hours. A schedule for the time slots during the allocated days will be made during the second half of the course.