

Schedule for Protein Structure and Function I / Integrative Structural Biochemistry - 2025 (7.5 credits)						
		Morning 09.00-12.00		Afternoon 13.00 - ≈ 17.00		
Mo						
Tues						
Wed	1-Oct					
Thurs	2-Oct					
Fri	3-Oct	Video lecture block: repetition of macromolecular structure 1-3: building blocks, rules, and examples (VK)		Video lecture block: repetition of macromolecular structure 1-3: building blocks, rules, and examples (VK)		
	4-Oct	K343 - PyMol intro + Structure-Function A (SR) part 1 and amino acids test		K343 - Structure-Function A part 2 (SR)		
	5-Oct					
Mo	6-Oct	K433-K439 - Biophysical properties of proteins and methods (VK)		K433-K439 - Q & A for Macromolecular structure & function lectures		
Tues	7-Oct	K433-K439 - Computational biochemistry 1 (VK)		K343 - Computational biochemistry practical 1 (SR)		
Wed	8-Oct	K441-K447 - Computational biochemistry 2 (VK)		Biophysical properties - in Kaila Lab (AB)		
Thurs	9-Oct	K438 - Introduction to bioinformatics, protein evolution, structure prediction (VK)		Biophysical properties - in Kaila Lab (AB)		
Fri	10-Oct	K343 - Computational biochemistry practical 2 (SR)		K343 - Bioinformatics lab (PaS)		
	11-Oct					
	12-Oct					
Mo	13-Oct	K433-K439 - Crystallization (PS)		X-ray recorded lectures 1-3 (MH)		
Tues	14-Oct	K433-K439 - X-ray Q&A 1 1h (1 h X-ray Sources (MB)		K232-K242 - Crystallization Practical Group 1 (AK/JL)		
Wed	15-Oct	X-ray recorded lectures 4-6 (MH)		K232-K242 - Crystallization Practical Group 2 (AK/JL)		
Thurs	16-Oct	X-ray recorded lectures 7-8 (MH)		K232-K242 - Crystal Analysis (AK/JL) Data processing, molecular replacement Demo (MH)		
Fri	17-Oct	K433-K439 - X-ray Lecture / Tutorial 2+3 2h (MH)		K343 - Electron density + Structure tools (AK/JL) (computer room)		
	18-Oct					
	19-Oct					
Mo	20-Oct	K433-K439 - NMR 1 (LM)		K433-K439 - cryoEM (I) (MC)		
Tues	21-Oct	K433-K439 - cryoEM (II) (MC)		cryoEM practical	cryoEM practical	cryoEM practical
Wed	22-Oct	Crystal mounting / fishing (AK/SJ)		x-ray Data collection		
Thurs	23-Oct	K438 - NMR 2 (LM)		K232-K242 - NMR practical (JL)		
Fri	24-Oct	K433-K439 - Student seminar day on integrative structural biology		K433-K439 - Student seminar day on integrative structural biology		
	25-Oct					
	26-Oct					
Mo	27-Oct	Study	Study	Study	Study	
Tues	28-Oct	Study	Study	Study	Study	
Wed	29-Oct	Study	Study	Study	Study	
Thurs	30-Oct	K441-K447 - Exam 9-13		Study		
Fri	31-Oct					

Lecture
Supervised computer practical, attendance mandatory
Supervised practical, attendance mandatory
Exam
work through on your own
Unsupervised work

Lecturers

Assistants for practicals

VK	Ville Kaila course organiser	ville.kaila@dbb.su.se	protein structure & function computational biochemistry biophysical properties Lab structural bioinformatics lab	SR AB PaS	s.rossmann@chello.at / adel.beghiah@dbb.su.se f patricia.saura@dbb.su.se
DDr	David Drew	david.drew@dbb.su.se	membrane proteins		
MH	Martin Högbom	martin.hogbom@dbb.su.se	crystallography	AK	ajda.krc@dbb.su.se
PS	Pål Stenmark	pal.stenmark@dbb.su.se		JL	julian.ludascher@dbb.su.se
MB	Matthew Bennett	matthew.bennett@dbb.su.se	x-ray sources		
LM	Lena Mäler	lena.maler@dbb.su.se	NMR	JL	jobst.liebau@dbb.su.se
MC	Marta Carroni	marta.carroni@scilifelab.se	cryoEM		Lisa Engelhart, Koen Jurgens Macej Malolepszy