Schedule for KO7010 Advanced Organic Synthesis, fall 2020

Department of Organic Chemistry, Stockholm University

	W. 36 (31/8 – 4/9)	W. 37 (7 – 11/9)	W. 38 (14 – 18/9)	W. 39 (21 – 25/9)	W. 40 (28/9 – 2/10)
Mon 10.00-12:30 13.30-(18)	Intro (PA), Lecture 1 Bonding (BO) Lab info (PA, Ass)	Lecture 5 Reduction (PA) Laboratory exercise Hand in lab-report1	Lecture 7 C=O (BO) Laboratory exercise Hand in lab-report 2	Lecture 10 Rearrangements (PA) Laboratory exercise --------	Lecture 13 Enolates (BO) *Seminar preparation*
Tue 10.00-12:30 13.30-(18)	Lecture 2 Oxidation (BO) **Safety exam** (Ass)	Laboratory exercise Laboratory exercise	Lecture 8 C=O (BO) **Short synth. presentations** (all) (13:30-18)	Lecture 11 Rearrangements (PA) Laboratory exercise	Laboratory exercise Laboratory exercise
Wed 10.00-12:30 13.30-(18)	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Lecture 14 Enolates (BO) **Synthesis seminar** (all)
Thu 10.00-12:30 13.30-(18)	Lecture 3 Oxidation (BO) Laboratory exercise --------	Laboratory exercise Laboratory exercise	**Long synthesis intro** (all) Problem, research info 2 (PA) --------	Lecture 12 Boron & Silicon (PA) Problems, research info 3 (BO)	Laboratory exercise Laboratory exercise
Fri 10.00-12:30 13.30-(18)	Lecture 4 Reduction (PA) Problems, research info 1 (BO) --------	Lecture 6 Phosph. & Sulfur, (PA) **Theoretical lab exam** (Ass) SciFinder search (K343)	Lecture 9 C=O (BO) Laboratory exercise	Laboratory exercise Laboratory exercise	Lecture 15 Enolates (BO) Problems, research info 4 (PA)

	W. 41 (5/10– 9/10)	W. 42 (12– 16/10)	W. 43 (19 – 23/10)	W. 44 (26/10 – 30/10)	W. 45 – 2/11)
Mon 10.00-12:30 13.30-(18)	Lecture 16 Heterocycles (PA) Laboratory exercise	Lecture 19 Pericyclic rxns (BO) Laboratory exercise	Laboratory exercise Laboratory exercise	Problem solving (BO)	**Multistep synthesis presentations** (all)
Tue 10.00-12:30 13.30-(18)	Laboratory exercise Laboratory exercise	Lecture 20 Pericyclic rxns (BO) **Synthesis seminar** (all)	Laboratory exercise Laboratory exercise	Problem solving (PA)	
Wed 10.00-12:30 13.30-(18)	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Lecture 22 Long synth. (PA) Problems, research info 6 (PA) --------	**Theory exam (9.00-14.00)**	
Thu 10.00-12:30 13.30-(18)	Lecture 17 Trans. Metals (PA) Lab report writing (K343)	Lecture 21 Strategy (PA) Problems, research info 5 (BO) --------	Laboratory exercise Laboratory exercise		
Fri 10.00-12:30 13.30-(18)	Lecture 18 Trans. Metals (PA) *Seminar preparation*	Laboratory exercise Laboratory exercise	**Lab-cleaning MANDATORY!**	**Hand in final synthesis report**	

Literature: Organic Chemistry 2nd Ed: Clayden, Greeves and Warren, Oxford University Press, 2012 + lecture handouts and notes.

Teachers: Pher Andersson (PA)* 16 27 20 Pher.Andersson@su.se Erika Linde erika.linde@su.se
Berit Olofsson (BO) 674 7264 Berit.Olofsson@su.se Bram Peters bram.peters@su.se

All teaching in **A507**, except for laboratory exercises that are in **K406 & K418** and SciFinder search in room **K343**.

Last dates for submitting lab reports: Monday September 7 and 14 (the short syntheses), Friday October 30 (the multistep synthesis)

* course responsible and examiner