180825

Schedule for KO7003 Advanced Organic Synthesis, fall 2018

Department of Organic Chemistry, Stockholm University

	W. 36 (3/9 – 7/9)	W. 37 (10 – 14/9)	W. 38 (17 – 21/9)	W. 39 (24 – 28/9)	W. 40 (1 – 5/10)
Mon 9-11.30 12.30-18	Intro, Lecture 1 Bonding (PA, ÅP) Lab info (PA, Ass)	Lecture 4 Reduction (PA) Laboratory exercise	Lecture 7 C=O (ÅP) Laboratory exercise	Lecture 10 Rearrangements (PA) **Long synthesis intro** (all)	Lecture 13 Enolates (ÅP) Laboratory exercise
Tue 9-11.30 12.30-18	Lecture 2 Oxidation (ÅP) **Safety exam** (Ass)	Lecture 5 Reduction (PA) Laboratory exercise	**Short synth. presentations** (all) Laboratory exercise	Lecture 11 Rearrangements (PA) Laboratory exercise	Lecture 14 Enolates (ÅP) **Synthesis seminar** (all)
Wed 9-11.30 12.30-18	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise
Thu 9-11.30 12.30-18	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Lecture 8 C=O (ÅP) Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise
Fri 9-11.30 12.30-15	Lecture 3 Oxidation (ÅP) Problems, research info 1 (ÅP)	Lecture 6 Phosph. & Sulfur (PA) **Theoretical lab exam** (Ass) SciFinder search (K343)	Lecture 9 C=O (ÅP) Problems, research info 2 (PA)	Lecture 12 Boron & Silicon (PA) Problems, research info 3 (ÅP)	Lecture 15 Enolates (ÅP) Problems, research info 4 (PA)

	W. 41 (8 – 12/10)	W. 42 (15 – 19/10)	W. 43 (22 – 25/10)	W. 44 (29/10 – 2/11)
Mon 9-11.30 12.30-18	Lecture 16 Pericyclic rxns (ÅP) Laboratory exercise	Lecture 18 Trans. Metals (PA) *Seminar preparation*	Lecture 20 Heterocycles (PA) Laboratory exercise	
Tue 9-11.30 12.30-18	Laboratory exercise Laboratory exercise	Lecture 19 Trans. Metals (PA) **Synthesis seminar** (all)	Lecture 21 Strategy (PA) Laboratory exercise	Problem solving (ÅP)
Wed 9-11.30 12.30-18	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	**Theory exam (9.00-14.00)**
Thu 9-11.30 12.30-18	Laboratory exercise Laboratory exercise	Laboratory exercise Laboratory exercise	**Lab-cleaning** **Practical lab exam** (all)	
Fri 9-11.30 12.30-15	Lecture 17 Pericyclic rxns (ÅP) Lab report writing (K343)	Laboratory exercise Problems, research info 5 (ÅP)	Lecture 22 Long synthesis (PA) Problems, research info 6 (PA)	**Multistep synthesis presentations** (all)

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

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

Last dates for submitting laboratory reports: **Friday September 14 (the short syntheses)**
Monday October 29 (the multistep synthesis)

* course responsible and examiner

Changes since last year:

- increased the number of problem solving sessions by 1
- removed one general problem solving before the exam
- moved the short synthesis presentation to Tuesday week 37
- decrease the number of synthesis seminars from 3 to 2 (week 38 & 40 instead of week 38, 39, 41)
- renamed the synthesis seminar week 38 to “Long synthesis intro” to clarify that it’s more a presentation of the project than of performed lab work.
- added one afternoon of seminar preparations
- added one afternoon for report writing

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