

KO 5001
Organic Chemistry – Reactivity and Structure
Autumn term 2025 (Schedule 250826)

Types of sessions and general schedule:

Lectures	A501	Morning: 09.15 – 12.00 <i>or</i> Afternoon: 13:15 – 16:00
Seminars	online	Morning: 09.15 – 12.00 <i>or</i> 14.00 – 17.00
Tutoring (<i>appointment only</i>)		Morning: 09.15 – 12.00 <i>or</i> Afternoon: 13:15 – 18:00
Laboratory sessions (compulsory)	A668/K343	Full day: 09:15 – 18:00 <i>or</i> Afternoon: 13:15 – 18:00

Lecturers:

Göran Widmalm (GW) – examiner & SPEK lecturer	08 16 3742	goran.widmalm@su.se
Biswanath Das (BD) – REAK lecturer	073 600 2256	biswanath.das@su.se

Teaching Assistants (TA):

Majken Raeder (MR)	majken.raeder@su.se
Alexandru Postole (AP)	alexandru.postole@su.se
Zainab Alsaman	zainab.alsaman@su.se
Saranya Chitsomkhuan (SC)	saranya.chitsomkhuan@su.se

Course literature:

- **[CGW]** Clayden, Greeves & Warren: Organic Chemistry; 2nd Edition, Oxford University Press 2012 (ISBN 978-0-19-927029-3) *or* Clayden, Greeves, Warren & Wothers: Organic Chemistry, Oxford University Press 2001 (ISBN 978-0-19-850346-0)
- **[FLM]** L.D. Field, H. L. Li, A. M. Magill: Organic Structures from Spectra, John Wiley & Sons, 6th edition (ISBN: 978-1-119-52480-9)
- Handouts from lecturers and teaching assistant

Demands to pass the theory course:

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|--|------------------------------|
| • Passed exam in nomenclature | > 50% of the points required |
| • Passed exam part REAK (reactions & mechanisms) | > 50% of the points required |
| • Passed exam part SPEK (spectroscopy theory & analysis) | > 50% of the points required |

Demands to pass the laboratory course:

- Passed exam in nomenclature (30% of the points required)
- Passed exam in safety (100% of the points required)
- Passed all lab reports
- Taken part in lab presentation
- Taken part in lab cleaning

Schedule for KO5001
Organic Chemistry – Reactivity and Structure
Autumn term 2025 (Schedule 250626b)

Week 36				
Mon	Sep 1	09.15 – 09.45 Course introduction	GW,BD,TAs	A501
		10.00 – 12.00 Lecture REAK-1	BD	A501
Tue	2	09.15 – 12.00 Lecture SPEK-1	GW	A501
		13.15 – 17.00 <i>Tutoring (optional, per appointment)</i>	TA	A501
Wed	3	09.15 – 12.00 Lecture SPEK-2	GW	A501
Wed	3	14.00 – 17.00 Exam: Nomenclature and safety	TA	online
Thu	4	09.15 – 12.00 Lecture SPEK-3	GW	A501
Thu	4	14.00 – 17.00 <i>Re-sit exam: Nomenclature and safety</i>	TA	online
Fri	5	09.15 – 12.00 Lecture SPEK-4	GW	A501
		13.15 – 16.00 Lab introduction	TA	A501
Week 37				
Mon	Sep 8	09.15 – 12.00 Lecture REAK-2	BD	A501
Mon	8	14.00 – 17.00 SPEK Interpretation NMR spectra	TA	online
Tue	9	09.15 – 12.00 Lecture REAK-3	BD	A501
Tue	9	13.15 – 18.00 LAB 1 - ChemDraw and MNova software G1-G3	TA	K343
Wed	10	9.15 – 18.00 LAB 2 - separation G1	TA	A668
Thu	11	9.15 – 18.00 LAB 2 - separation G2	TA	A668
Fri	12	9.15 – 18.00 LAB 2 - separation G3	TA	A668
Week 38				
Mon	Sep 15	09.15 – 12.00 Lecture REAK-4	BD	A501
Mon	15	13.15 – 18.00 LAB 2 - separation G1	TA	A668
Tue	16	13.15 – 18.00 LAB 2 - separation G2	TA	A668
Wed	17	09.15 – 12.00 Lecture REAK-5	BD	A501
Wed	17	13.15 – 18.00 LAB 2 - separation G3	TA	A668
Thu	18	10:00 – 12.00 REAK Seminar 1	BD	online
Thu	18	13.15 – 18.00 LAB report workshop 1 G1-G3	TA	K343
Fri	19	09.15 – 12.00 SPEK Interpretation NMR spectra	TA	online
Week 39				
Mon	Sep 22	09.15 – 18.00 LAB 3 - banana oil G1	TA	A668
Tue	23	09.15 – 18.00 LAB 3 - banana oil G2	TA	A668
Wed	24	09.15 – 18.00 LAB 3 - banana oil G3	TA	A668
Thu	25	09.15 – 12.00 LAB presentations	TA	A501
	25	14.00 – 17.00 SPEK Interpretation NMR spectra	TA	online
Fri	26	09.15 – 12.00 <i>Tutoring (optional, per appointment)</i>	GW	A501/online
Week 40				
Mon	Sep 29	09.00 – 14.00 Exam: SPEK	TA	K433-K439
Tue	30	09.15 – 12.00 Lecture REAK-6	BD	A501
Wed	Oct 1	09.15 – 18.00 LAB 4 - Friedel-Crafts synthesis G1	TA	A668
Thu	2	09.15 – 18.00 LAB 4 - Friedel-Crafts synthesis G2	TA	A668
Fri	3	09.15 – 18.00 LAB 4 - Friedel-Crafts synthesis G3	TA	A668
Week 41				
Mon	6	09.15 – 12.00 Lecture REAK-7	BD	A501
Tue	7	09.15 – 18.00 LAB 5 - ibuprofen intermediate synthesis G1	TA	A668
Wed	8	09.15 – 18.00 LAB 5 - ibuprofen intermediate synthesis G2	TA	A668
Thu	9	09.15 – 18.00 LAB 5 - ibuprofen intermediate synthesis G3	TA	A668
Fri	10	09.15 – 12.00 Lecture REAK-8	BD	A501
		13.15 – 18.00 LAB Extra time G1	TA	A668
Week 42				
Mon	Oct 13	13.15 – 18.00 LAB Extra time G2	TA	A668
Tue	14	09.15 – 12.00 Lecture REAK-9	BD	A501
		13.15 – 18.00 LAB Extra time G3	TA	A668
Wed	15	09.15 – 18.00 LAB cleaning G1-G3	TA	A668
Thu	16	09.15 – 12.00 Lecture REAK-10	BD	A501
		13.15 – 18.00 LAB report workshop 2	TA	K343

Fri	17	09.15 – 12.00	Lecture REAK-10	BD	A501
Week 43					
Mon	Oct 20	10:00 – 12.00	Lecture REAK Seminar 2	BD	Online
Tue	21	09.15 – 18.00	Self-studies		
Wed	22	09.15 – 18.00	Self-studies		
Thu	23	09.15 – 18.00	Self-studies		
Fri	24		DEADLINE reports		
Week 44					
Mon	Oct 27	09:15 – 11.00	REAK exam practice	BD	A501
Tue	28	10:00 – 12.00	<i>Tutoring (optional, per appointment)</i>	BD	A629/A501
Wed	29	09.15 – 18.00	Self-studies		
Thu	30	09.00 – 14.00	Exam: REAK	TA	K433-K439
Fri	31	09.15 – 18.00	Finalizing reports		
Week 46					
Day	Nov 12	13.00 – 18.00	Re-exam SPEK LADOK registration required	TA	K433-K439
Week 47					
Day	Nov 19	13.00 – 18.00	Re-exam REAK LADOK registration required	TA	K433-K439

IMPORTANT: The deadline for handing in of all the laboratory reports is indicated above.

After the course period the reports will be corrected whenever the assistants have the time, and a fast response is therefore not warranted. To avoid disappointment and curricular issues, it is important to keep the set deadline for the reports.

Appointment is required to participate in the **tutoring sessions** scheduled. Please kindly use email to either GW or BD 24 h before the scheduled seminar indicating to communicate your intention of using this resource.