

# KO 5001

## Organic Chemistry – Reactivity and Structure

Autumn term 2019

### Types of sessions and general schedule:

Lectures	A501	Morning: 09:00 – 12:00
Seminars	A501/K343/K438	Morning: 09:00 – 12:00
Tutoring ( <i>appointment only</i> )	A529/A626/A501	Morning: 09:00 – 12:00 // Afternoon: 13:00 – 18:00
Laboratory sessions ( <b>compulsory</b> )	K340/K343	Full day: 09:00 – 18:00 <i>or</i> Afternoon: 13:00 – 18:00

### Lecturers:

Abraham Mendoza (AM) – examiner & REAK lecturer	08 16 2481	abraham.mendoza@su.se
Göran Widmalm (GW) – SPEK lecturer	08 16 3742	goran.widmalm@su.se

### Teaching Assistants:

Marvin Lübke (ML)	08 16 2359	marvin.luebcke@su.se
Matteo Costantini (MC)	08 16 2466	matteo.costantini@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)
- **[FSK]** L.D. Field, S. Sternhell, J.R. Kalman: Organic Structures from Spectra, John Wiley & Sons, 4th edition (ISBN 978-0-470-31927-7)
- Handouts from lecturers and assistants

### Demands to pass the theory course:

- 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 report writing sessions
- Taken part in lab presentation
- Taken part in lab cleaning

# Schedule for KO 5001

## Organic Chemistry – Reactivity and Structure

Autumn term 2019

### Week 36

Mon	Sep 2	09.00 – 09.30	Course introduction	AM, GW, ML, MC	A501
		09.30 – 12.00	Lecture REAK-1	AM	A501
Tue	3	09.00 – 12.00	Lecture SPEK-1	GW	A501
		13.00 – 16.00	<i>Tutoring (optional, per appointment)</i>	ML, MC	A501
<b>Wed</b>	<b>4</b>	<b>09.00 – 12.00</b>	<b>Exam: Nomenclature and safety</b>	<b>ML, MC</b>	<b>K438</b>
Thu	5	09.00 – 12.00	Lecture SPEK-2	GW	A501
Fri	6	09.00 – 12.00	<i>Re-sit exam: Nomenclature and safety</i>	ML, MC	A501
		13.00 – 15.00	Lab introduction	ML, MC	K340,K343

### Week 37

Mon	Sep 9	09.00 – 12.00	REAK Seminar 1	MC	A501
Tue	10	09.00 – 12.00	Lecture REAK-2	AM	A501
Wed	11	09.00 – 12.00	Lecture SPEK-3	GW	A501
		13.00 – 18.00	LAB 1 - ChemDraw and MNova software	ML, MC	K343
Thu	12	09.00 – 12.00	Lecture SPEK-4	GW	A501
Fri	13	09.00 – 12.00	SPEK Seminar 1	GW	A501
		13.00 – 18.00	LAB 2 - separation	ML, MC	K340

### Week 38

Mon	Sep 16	09.00 – 18.00	LAB 2 - separation	ML, MC	K340
Tue	17	09.00 – 18.00	LAB 2 - separation	ML, MC	K340
Wed	18	09.00 – 18.00	LAB 2 - separation	ML, MC	K340
Thu	19	09.00 – 12.00	Lecture REAK-3	AM	A501
Fri	20	09.00 – 12.00	REAK Seminar 2	ML	A501

### Week 39

Mon	Sep 23	09.00 – 12.00	Lecture REAK-4	AM	A501
		13.00 – 18.00	LAB report workshop	ML, MC	K343
Tue	24	09.00 – 18.00	LAB 3 - banana oil	ML, MC	K340
Wed	25				
<b>Thu</b>	<b>26</b>	<b>09.00 – 12.00</b>	<b>LAB presentations</b>	<b>ML, MC</b>	<b>K438</b>
Fri	27	09.00 – 12.00	Lecture SPEK-5	GW	A501

### Week 40

Mon	Sep 30	09.00 – 12.00	Lecture REAK-5	AM	A501
Tue	Oct 1	09.00 – 12.00	SPEK Seminar 2	MC	A501
Wed	2	09.00 – 12.00	Lecture SPEK-6	GW	A501
Thu	3	09.00 – 18.00	LAB 4 - Friedel-Crafts synthesis	ML, MC	K340
Fri	4	09.00 – 12.00	LAB 4 - Friedel-Crafts synthesis ( <i>extra-time</i> )	ML, MC	K340

### Week 41

Mon	Oct 7	09.00 – 12.00	SPEK Seminar 3	GW	A501
Tue	8	09.00 – 12.00	<i>Tutoring (optional, per appointment)</i>	ML, MC	A501
Wed	9	09.00 – 12.00	<i>Tutoring (optional, per appointment)</i>	GW	A626
<b>Thu</b>	<b>10</b>	<b>09.00 – 14.00</b>	<b>Exam: SPEK</b>	<b>ML, MC</b>	<b>A501</b>
Fri	11	09.00 – 12.00	Lecture REAK-6	AM	A501

### Week 42

Mon	Oct 14	09.00 – 12.00	Lecture REAK-7	AM	A501
Tue	15	09.00 – 18.00	LAB 5 - ibuprofen intermediate synthesis	ML, MC	K340
Wed	16	09.00 – 12.00	Lecture REAK-8	AM	A501
Thu	17	09.00 – 12.00	REAK Seminar 3	ML	A501
Fri	18	09.00 – 12.00	LAB cleaning ( <i>extra-time</i> )	ML, MC	K340
		13.00 – 18.00	LAB report workshop	ML, MC	K343

Week 43

Mon	Oct 21	09.00 – 12.00	REAK Seminar 4	MC	A501
Tue	22	09.00 – 12.00	Lecture REAK-9	AM	A501
Wed	23	09.00 – 12.00	Lecture REAK-10	AM	A501
Thu	24				
<b>Fri</b>	<b>25</b>	09.00 – 12.00	REAK Seminar 5 <b>DEADLINE reports</b>	ML	A501

Week 44

Mon	Oct 28	09.00 – 12.00	REAK exam practice	AM	A501
Tue	29				
Wed	30	09.00 – 12.00	<i>Tutoring (optional, per appointment)</i>	AM	A529
Thu	31	09.00 – 12.00	<i>Tutoring (optional, per appointment)</i>	ML, MC	A501
<b>Fri</b>	<b>Nov 1</b>	<b>09.00 – 14.00</b>	<b>Exam: REAK</b>	ML, MC	K233,K239

Week 46

<b>Mon</b>	<b>Nov 11</b>	13.00 – 18.00	<b>Re-exam SPEK</b> LADOK registration required: Oct 28 - Nov 7	ML, MC	K233
------------	---------------	---------------	--	--------	------

Week 50

<b>Mon</b>	<b>Dec 9</b>	13.00 – 18.00	<b>Re-exam REAK</b> LADOK registration required: Nov 25 - Dec 5	ML, MC	K233
------------	--------------	---------------	--	--------	------

**IMPORTANT:** The deadline for the laboratory reports is **Friday, October 25<sup>th</sup>, 2019** (see above).

After November 1<sup>st</sup>, 2019 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 before exams. Please kindly let the person in charge of the tutoring session know of your intention of attending using the contact information provided. **A 24 hour advance notice is strongly recommended.**