

**DRAFT** Lecture plan - Intro to Environmental Chemistry, IEC, KZ4007, 15 hp, ht 2016

	Day	Morning lectures 9-12	Lecturer	Room	Afternoon lectures 13-16 Lab exercises: 13-17 ca	Lecturer / Lab assistants	Room
Week 36	29/8	Roll call and course info. Org. L1, Introduction 1 -- <i>Highlights.</i>	BP AS	B233	Intro to lab exercises – lab.tour and review of safety.	JA/NN	B233 C348/ C350
	30/8	Org. L2, Introduction 2 -- <i>Concepts and definitions, and nomenclature.</i>	AS	B233	Org. L3, Introduction 3 -- <i>The Stockholm Convention</i>	AS	B233
	31/8	Org. L4, Physical and chemical properties	JE	B233	Org. L5, Physical and chemical properties – <i>Exercises</i>	JE	B233
	1/9	Individual studies	JA/NN	B233	Examination of safety	JA/NN	B233
	2/9	Individual studies			Individual studies		
Week 37	5/9	Org. L6, Chemical reactivity	HM	B233	Org. L7, Chemical reactivity, -- <i>Exercises</i>	HM	B233
	6/9	Org. L8, Analysis of organic environmental pollutants 1	LA	B233	Org. L9, Analysis of organic environmental pollutants 2	LA	B233
	7/9	Org. L10, Organic pollutants 1	JW	B233	Org. Lab demonstration -- <i>Analysis of fish muscle</i>	JA/NN	C348/ C350
	8/9	Org. L12, Organic pollutants 2	JW	B233	Org. Lab demonstration -- <i>Quantification</i>	JA/NN	C348/ C350
	9/9	Individual studies / Lab reports		B233	Individual studies / Lab reports		B233
Week 38	12/9	Org. L13, Biotransformation/metabolism	MT	B233	Org. Lab exercise -- <i>Separation</i>	JA/NN	C348/ C350
	13/9	Org. Lab exercise -- <i>Separation</i>	JA/NN	C348 C350	Org. Lab exercise, -- <i>Separation</i>	JA/NN	C348 C350
	14/9	Individual studies / Lab reports,		B233	Individual studies / Lab reports		B233
	15/9	Individual studies			Individual studies		
	16/9	Individual studies			Individual studies		
Week 39	19/9	<b>Org. Written exam 9-12</b>	BP	B233			
	20/9	Inorg. L1, Intro + pH-pC	JE	B233	Inorg. Exercise 1	LE/JE	B233
	21/9	Inorg. L2, pH-pC + Buffert	JE	B233	Individual studies		
	22/9	Individual studies			Inorg. L3, Nutrients	LE	B233
	23/9	Individual studies			Individual studies		
Week 40	26/9	Inorg. L4, Weathering	JE	B233	Individual studies		
	27/9	Inorg. L5, pE-pC	LE	B233	Inorg. Exercise 2	LE/JE	B233
	28/9	Inorg. L6, Pourbaix	LE	B233	Inorg. Exercise 3	LE/JE	B233
	29/9	Inorg. L7, Water treatment	LE	B233	Individual studies		
	30/9	Inorg. Exercise 4	JE	B233	Inorg. Lab introduction	LE/JE	B233
	3/10	Inorg. Water sampling,	LE/JE	Field	Inorg. Water sampling,	LE/LJE	Field

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Week 41	4/10	Inorg. Lab exercise	JE/LE	KÖL	Inorg. Lab exercise	JE/LE	C348/C350
	5/10	Inorg. Lab exercise	JE/LE	KÖL	Inorg. Lab exercise	JE/LE	C348/C350
	6/10	Inorg. Lab exercise	JE/LE	KÖL	Inorg. Lab exercise	JE/LE	C348/C350
	7/10	Individual studies			Individual studies		
Week 42	10/10	Individual studies			Individual studies		
	11/10	<b>Inorg. Written exam, 9-12</b>	LE/JE	B233			
	12/10	Atm. L1, Atmospheric structure and composition, gas chemistry	PT/RK	B233	Individual studies		
	13/10	Atm. L2, Gas chemistry	PT/RK	B233	Individual studies		
	14/10	Atm. L3, Chemistry and physics of aerosols	PT/RK	B233	Individual studies		
Week 43	17/10	Atm. L4, Clouds and precipitation	PT/RK	B233	Individual studies		
	18/10	Atm. L5, Local and regional air pollution	PT/RK	B233	Individual studies		
	19/10	Atm. L6, Global air pollution. stratospheric ozone chemistry	PT/RK	B233	Individual studies		
	20/10	Atm. L7, Greenhouse gases and climate change	PT/RK	B233	Atm. Computer exercise	??	K339
	21/10	Atm. Computer exercise	??	K339	Atm. Computer exercise	??	K339
Week 44	24/10	Atm. Computer exercise	??	K339	Atm. Computer exercise		K339
	25/10	Individual studies / Lab reports			Individual studies / Lab reports		
	26/10	Individual studies			Individual studies		
	27/10	Individual studies			Individual studies		
	28/10	<b>Atm. Written exam, 9-12</b>	PT/RK	B233			

#### Lecturer

Anna Strid (AS)  
Hitesh Motwani (HM)  
Jana Weiss (JW)  
Johan Eriksson (JE)  
Lillemor Asplund (LA)  
Lars Eriksson (LE)  
Margareta Törnqvist (MT)  
Peter Tunved (PT)  
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#### Laboratory assistants:

Jenny Aasa (and others)

#### Course coordinator

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#### Course book/literature

Baird & Cann, Environmental Chemistry, 5<sup>th</sup> edition  
Distributed lecture literature/hand-outs

[Booking of K339: leif@kol.su.se](mailto:leif@kol.su.se)