

**DRAFT** Lecture plan - Introduction to Environmental Chemistry, IEC, KZ4007, 15 hp, ht 2017

	Day	Morning lectures 9-12	Lecturer	Room	Afternoon lectures 13-16 Lab exercises: 13-17 ca	Lecturer / Lab assistants	Room
Week 35	28/8	Roll call and course information <u>Org. L1</u> , Introduction 1 -- <i>Highlights</i>	HM	B233	Lab tour	JG	B233 C348/ C350
	29/8	Org. L2, Introduction 2 -- <i>Concepts and definitions, and nomenclature</i>	JW	B233	Org. L3, Introduction 3 -- <i>The Stockholm Convention</i>	JW	B233
	30/8	Org. L4, Chemical reactivity	HM	B233	Chemical reactivity -- Exercises	HM	B233
	31/8	Org. L5, Organic pollutants 1	JW	B233	Individual studies		
	1/9	Org. L6, AD(M)E	HM	B233	Individual studies		
Week 36	4/9	Org. L7, Physical and chemical properties	JE	B233	Physical and chemical properties -- Exercises	JE	B233
	5/9	Org. L8, Organic pollutants 2	JW	B233	Individual studies		
	6/9	Org. L9, Biotransformation/ Metabolism 1	HM	B233	Metabolism/ Exercises	HM	B233
	7/9	Org. L10, Metabolism 2	HM	B233	Individual studies		
	8/9	Org. L11, Metabolism 3	HM	B233	Metabolism/ Exercises	HM	B233
Week 37	11/9	Org. L12, Analysis of organic environmental pollutants 1	LA	B233	Individual studies		
	12/9	Org. L13, Analysis of organic environmental pollutants 2	LA	B233	Individual studies		
	13/9	Org. Lab I, <i>on fish muscle</i> -- <i>Analysis</i>	JG/MC	C348/ C350	Org. Lab I, <i>on fish muscle</i> -- <i>Analysis</i>	JG/MC	C348/ C350
	14/9	Individual studies			Individual studies		
	15/9	Org. Lab I, <i>on fish muscle</i> -- <i>Quantification</i>	JG/MC	K343	Org. Lab I, <i>on fish muscle</i> -- <i>Quantification</i>	JG/MC	K343
Week 38	18/9	Org. Lab 2 -- <i>Separation</i>	JG/DL	C348 C350	Org. Lab 2 -- <i>Separation</i>	JG/DL	C348/ C350
	19/9	Org. Lab 2 -- <i>Separation</i>	JG/DL	C348 C350	Org. Lab 2 -- <i>Separation</i>	JG/DL	C348 C350
	20/9	Org. L14, Risk Assessment/ EDA case study	MT/JW	B233	Individual studies / Lab reports		
	21/9	Individual studies			Individual studies		
	22/9	Individual studies			Individual studies		
Week 39	25/9	<b>Org. Written exam 9-12</b>		B233			
	26/9	<u>Inorg. L1</u> , Intro + pH-pC	LE	B233	Inorg. Exercise 1	LE	B233
	27/9	Inorg. L2, Nutrients	LE	B233	Inorg. Exercise 2	LE	B233
	28/9	Inorg. L3, pE-pC	LE	B233	Individual studies		
	29/9	Inorg. L4, Pourbaix	LE	B233	Inorg. Exercise 3	LE	B233

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Week 40	2/10	Inorg. L5, Water treatment	LE	B233	Inorg. Lab introduction	LE	B233
	3/10	Water sampling	LE	Field	Water sampling	LE	Field
	4/10	Inorg. Lab exercise	LE	C348/ C350	Inorg. Lab exercise	LE	C348/ C350
	5/10	Inorg. Lab exercise	LE	C348/ C350	Inorg. Lab exercise	LE	C348/ C350
	6/10	Individual studies			Individual studies		
Week 41	9/10	Individual studies			Individual studies		
	10/10	<b>Inorg. Written exam, 9-12</b>		B233			
	11/10	Atm. L1, Atmospheric structure and composition, gas chemistry	RK	B233	Individual studies		
	12/10	Atm. L2, Gas chemistry	RK	B233	Individual studies		
	13/10	Atm. L3, Chemistry and physics of aerosols	RK	B233	Individual studies		
Week 42	16/10	Atm. L4, Clouds and precipitation	RK	B233	Individual studies		
	17/10	Atm. L5, Local and regional air pollution	RK	B233	Individual studies		
	18/10	Atm. L6, Global air pollution. stratospheric ozone chemistry	RK	B233	Individual studies		
	19/10	Atm. L7, Greenhouse gases and climate change	RK	B233	Atm. Computer exercise	EG	K343
	20/10	Atm. Computer exercise	EG	K339	Atm. Computer exercise	EG	K343
Week 43	23/10	Atm. Computer exercise	EG	K339	Atm. Computer exercise	EG	K343
	24/10	Individual studies / Lab reports			Individual studies / Lab reports		
	25/10	Individual studies			Individual studies		
	26/10	Individual studies			Individual studies		
	27/10	<b>Atm. Written exam, 9-12</b>		B233			

#### Lecturers

Lillemor Asplund (LA)  
 Johan Eriksson (JE)  
 Lars Eriksson (LE)  
 Radovan Krejci (RK)  
 Hitesh Motwani (HM)  
 Margareta Törnqvist (MT)  
 Jana Weiss (JW)

#### Laboratory assistants:

Mafalda Castro (MC)  
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#### Course coordinator

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#### Course book/literature

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