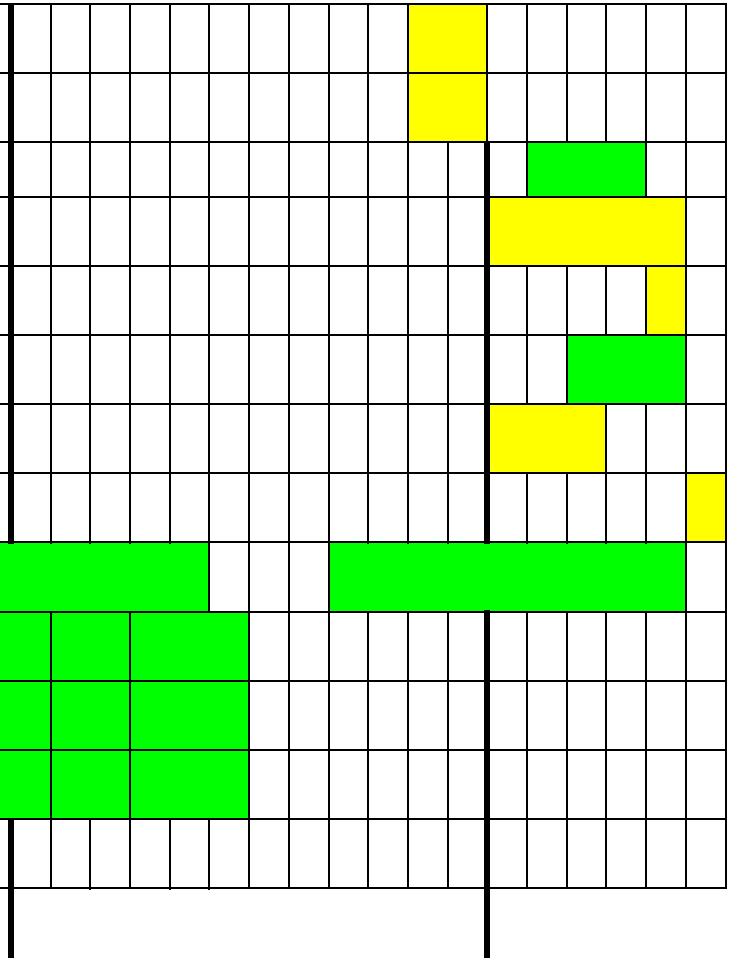
						2007					2008												2009					
Course name	ECTS	Form	University	Prerequisites		8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
Introduction to Atmosphere-Biosphere Studies	3,0	Intensive course	Helsinki	Bachelor's degree	1																							
Environmental Chemistry 1	7,5	Lectures and group work	Copenhagen	KemiAU og KemiO2. Content of KemiUB og KemiF1 should be known	1																							
Simple Climate Models	7,5	Lectures and computer	Copenhagen	Basic Mathematics and Physics	1																							
Climate changes – causes, effects, limitations and adaptation	7,5	Lectures, seminars	Copenhagen	Bachelor degree in geography, biology, geology, environmental studies or equivalent	1																							
Greenhouse gases and the carbon cycle	15,0	lectures, practices, group exercises and project work;	Lund	90 ECTS credits from courses in the Mathematics-Natural Sciences curriculum including courses	1																							
Climate Change and its Impact on the Environment	15,0	lectures and group work in the form of exercises,	Lund	90 ECTS credits from courses in the Mathematics-Natural Sciences curriculum.	1																							
Statistical analysis of observations using MATLAB	3,0	Lectures, exercises, e-learning, home exam	Helsinki	None																								
Aerosol Physics	5,0	Lectures, exercises, exam	Helsinki		1																							
Environmental Chemistry III	7,5	Group work and lectures	Copenhagen	None	2																							
Atmospheric Environmental Chemistry	7,5	Lectures, group work and computer lab	Copenhagen	Bachelordegree in environmental chemistry, chemistry or similar	2																							
Micro Meteorology	7,5	Lectures	Copenhagen	Basic knowledge of fluid dynamics	2																							
Global Climate Changes	7,5	Lectures and discussions	Copenhagen	Basic knowledge in Mathematics and Physics; General knowledge in flud	2																							
Ecological climatology & climate change	7,5	Lectures, seminars	Copenhagen	Bachelor degree in geography, biology, geology, environmental studies or equivalent	2																							
Ecosystem Modeling	15,0	lectures, seminars, computational	Lund	90 ECTS university studies in science including courses corresponding to NGEAxx Theory and Methods of	2																							
Global Ecosystem Dynamics	15,0	Lectures, field trips and practical exercises; a	Lund		2																							
Aerosol Dynamics	5,0	Lectures, exercises, exam	Helsinki	53051 Aerosol Physics or equivalent.	2																							
Hydrodynamics	5,0	Lectures, exercises, exam	Helsinki	Basics of physics	2																							
Large Scale Meteorology	7,5	Lectures, discussions and	Copenhagen	Basic knowledge in Dynamical Meteorology	3																							

The climate system	15,0	lectures, practicals, seminars, group	Lund	90 ECTS credits from courses in the Mathematics-Natural Sciences curriculum.	3
Cloud Microphysics	5,0	Introductive kick-off meeting (4 h), e-learning in	Kuopio		3
Atmospheric Aerosols	5,0	Lectures, exercises, exam	Helsinki		3
Air Chemistry	4,0	Lectures, exercises, exam	Helsinki		3
Fluid mechanics	5,0	Lectures, exercises, exam	Helsinki		3
Air Quality outdoors and indoors	15,0	Lecture course	Stockholm	equivalent to basic air chemistry 15 ECTS	3
Advanced biomass and CO2 modelling	7,5	Lectures, seminars, practical classes	Copenhagen	Bachelor degree in geography, biology, geology, environmental studies or equivalent	4
Ecosystem analysis	15,0	lecturing and group work both of a practical and	Lund	30 ECTS credits from courses in the Mathematics-Natural Sciences curriculum.	4
Water and energy in ecosystems	15,0	lectures, practices, group exercises and project work;	Lund	90 ECTS credits from courses in the Mathematics-Natural Sciences curriculum including courses	4
Satellite remote sensing	15,0	lectures, practicals, field exercises,	Lund	90 ECTS credits from courses in the Mathematics-Natural Sciences curriculum	4
Atmospheric Chemistry	5,0	Lectures, exercises, exam	Helsinki		4
Health effects of fine particles	5,0	Lectures, exercises, exam	Helsinki		4
Physics and chemistry of air pollution: field course and data analysis	5,0	Field / intensive course	Helsinki		4
Field course in micrometeorology	4,0	Field course	Helsinki	Understanding of the basic physical processes in the surface layer	4
Measurements of atmospheric aerosols: Aerosol physics, sampling and measurement techniques	3,0	Intensive course	Helsinki		4
Aerosols, clouds and climate	15,0	Lecture course	Stockholm	equivalent to basic air chemistry 15 ECTS	4
Environmental Physics	5,0	Lectures, exercises, exam / e-learning	Helsinki		1
Aerosol measurement technique	5,0	Lectures, lab. work, talk	Helsinki		2

Modelling of aerosol physics and atmospheric chemistry	5,0	Lectures, exercises, exam	Helsinki	BSc in Physics or related area. Basic programming skills.	2	
Forest-Atmosphere Interactions	5,0	Lecture course / e-learning	Helsinki		2	
Numerical Methods in Atmospheric and Oceanographic Models	7,5	Lectures and computer	Copenhagen	None	3	
Biogeochemistry I	6,0	Lectures (30 h), self-education (70 h), seminar (10 h)	Kuopio		3	
Biogeochemistry II	5,0	Introductory lectures, seminar (20 h), field and	Kuopio	Biogeochemistry I or corresponding knowledge	4	
Fine particles in working environment	5,0	Lectures, exercises, exam	Helsinki	BSc in Physics or related area	4	
Classical nucleation theory	5,0	Lectures, exercises, exam	Helsinki	Basic knowledge of thermodynamics, statistical physics helps as well. Familiarity with partial derivatives and	3	
Formation and growth of atmospheric aerosols	5,0	Intensive course	Helsinki		4	
Seminar in Aerosol and Environmental Physics	5,0	seminar course	Helsinki			
GISA01	10,0	Internet based GIS course	Lund			
GISA02	10,0	Internet based GIS course	Lund	GISA01 is required to take GISA02		
GISA11	10,0	Internet based GIS course	Lund	GISA02 is required to take GISA11		
Remote Sensing	7,5	Lectures, seminars	Copenhagen	Bachelor degree in geography, biology, geology, environmental studies or equivalent and basic understanding of		
Total available	383,0