

## COURSE DETAIL

### ENVIRONMENTAL SYSTEM STUDIES: CLIMATE, SCIENCE, AND POLITICS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Political Science Environmental Studies

**UCEAP Course Number**

120

**UCEAP Course Suffix****UCEAP Official Title**

ENVIRONMENTAL SYSTEM STUDIES: CLIMATE, SCIENCE, AND POLITICS

**UCEAP Transcript Title**

CLIMATE SCIENCE&POL

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

This course provides knowledge about the most important concepts in climate science and actors in the international climate policy debate and negotiations. To study climate issues from a systems analytical perspective where independent critical analysis of the interaction between science and policy is central. The primary focus of the course is on the description and analysis of the connections and interactions between science and policy/politics. Natural science and technological aspects such as radiation balance, coal balance, atmospheric science and meteorology, palaeoclimatology and climate modelling are reviewed. This includes greenhouse gases, warming potential, climate sensitivity, albedo, carbon sink, scenarios and carbon storage. Social science aspects include international relations and negotiations, climate politics and economy, including policy, burden sharing, cost-benefit analysis, technology transfer, system innovations, transitions and policy instruments. The course consists of lectures and seminars where the aspects are presented, discussed and related to each other. The literature provides background and deeper knowledge.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

FMIN05

### **Host Institution Course Title**

ENVIRONMENTAL SYSTEM STUDIES: CLIMATE, SCIENCE, AND POLITICS

### **Host Institution Campus**

Engineering

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

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