



Aswan University

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CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAM

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The Climate Change and Sustainability Policy (CLIMASP) minor at Aswan University is an interdisciplinary program funded by the European Commission Tempus under the coordination of the UNESCO Chair ICT in Education for Sustainable Development, University of Crete, Greece. Students from (Faculty of Science, Faculty of Energy Engineering, Faculty of Social Work, Faculty of Education, Faculty of Engineering, Faculty of Specific Education, Faculty of Physical Education, Faculty of Agriculture, Faculty of Arts, Faculty of Medicine, Faculty of Veterinary Medicine, Faculty of Nursing, Faculty of Languages and Translation, Faculty of Commerce, Faculty of law, Faculty of Archaeology and Faculty of Fish and Fishing Technology) choosing the CLIMASP minor as a complement of their major opens to them new opportunities for further studies and career paths.

The CLIMASP minor consists of core courses, elective courses and the required capstone course in three concentration areas: 1) Climate Change, Environment and Society; 2) Climate Change, Economics and Public Policy; and 3) Climate Change, Science and Technology. The courses included in the CLIMASP minor are an integral part of the participating disciplines curricula. It is, thus, an advantage for students seeking a meaningful and rewarding complement to their main field of study. Upon completion of the minor along with their major, students will be granted the Euro-Arab Pass diploma ranges from 45-60 ECTS.

The CLIMASP minor program is administrated by the Euro-Arab Center for Interdisciplinary Studies and promotes five key learning processes and outcomes:

EXTENDS BEYOND THE 4Cs FOR 21st CENTURY SUCCESS

A 21st century classroom must engage and energize all students to be active participants in building a more sustainable society. In doing so, the CLIMASP minor goes beyond mastering the 4 C's - creativity, critical thinking, communication, and collaboration. In addition, students will be prepared to grasp the skills of connectivity, critical Consciousness, critical reflection, cross/inter-cultural competence, co-responsibility and constructing knowledge. All these skills are being highly recognized as the skills that CLIMASP students should be prepared for tackling the complexity of climate change and sustainability policy.

APPLIES PROBLEM-BASED LEARNING TO TEACH 21st CENTURY SKILLS

The increased complexity of the climate change and sustainability policy challenges drives us in preparing our students to become inquirers, problem solvers, critical and creative thinkers. The CLIMASP minor provides our students with improved strategies to help them deal with these very complex situations. Problem-based learning (PBL) is one such strategy that is employed throughout the CLIMASP curriculum and teaching methods.

VALUING CLIMATE CHANGE AND SUSTAINABILITY POLICY

Every aspect of climate change is shaped by ethical dispute and covers an array of fields: moral philosophy, science, economics, public policy, global justice, energy, and human rights, among others. Applying a values-based and PBL approach, the CLIMASP minor prepares students to comprehend and further explore the intersections of science, ethics, values, climate change and sustainability policy.

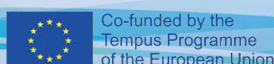
LEARNING HOW TO TRANSFORMATIVELY ADAPT

Transformative learning in a climate change context involves climate risk negotiation, identification of vulnerabilities, and both proactive and reactive adaptation. The CLIMASP minor prepares students to learn how to trans formatively adapt to the climate change vulnerabilities by seeking out relationships that potentially will help them deconstruct their frames of reference, habits of mind, and unsustainable practices.

MERGING THEORY WITH PRAXIS

The CLIMASP curriculum blends classroom learning with experiential, constructivist and transformative practices, incorporating critical self-reflection, argumentation, community service, civic engagement and practicum placements. It adopts a critical pedagogy of sustainability that involves inter- and transdisciplinary engagement with students and community members in an effort to involve students in the process of sustainable thinking and action. In that way, it helps students experience the synergies of the 3Hs- head (cognition), heart (ethics and sentiment) and hand (praxis).

Euro-Arab Center for Interdisciplinary Studies.



CLIMASP
Climate Change and
Sustainability Policy



University of Crete

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CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAM OUTLINE

I. CORE COURSES (15 ECT = 9 Credit Hours*)

CLIMASP Orientations	Course ID	Course title	ECTS*	Department	Faculty
Climate Change, Environment and Society	LAW101	Human rights	5	Law	Law
Climate Change, Economics and Public Policy	COM203	Economic and Environment	5	Accounting	Commerce
Climate Change, Science and Technology	Math 101	Computer Sciences	5	Math	Science

* 3 Credit hours are equivalent to 5 ECTS

II. CAPSTONE COURSE (10 ECT = 6 Credit Hours)

Course ID	Course title	ECTS	Department	Faculty
1	Graduate Project	10	All	Engineering
2	Research or Article	10	All	Science
3	Field Training	10	All	Social & Education

III. ELECTIVE COURSES (25 ECT = 15 Credit Hours)

(The student will choose 5 courses from the following list)

CONCENTRATION AREA 1: Climate Change, Environment and Society

Course ID	Course title	ECTS	Department	Faculty
SOC 301	Social Science rural and urban	5	general	Social Work
SOC 303	Introduction to Social planning	5	Planning	Social Work
S 103	Community health	5	general	Social Work
S 105	General Sociology	5	General	Social Work
S 110	Environmental and family studies	5	general	Social Work
Edu 107	Principles of psychology	5	general	Education
Edu 101	Adult education and environment Service	5	general	Education
SOC 202	Populations and Environmental Studies	5	Planning	Social work
SOC 103	Social work in one of the developed fields	5	Planning	Social work
UNC 012	Engineering and energy history	5	Energy	Energy Engineering

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CONCENTRATION AREA 2: Climate Change, Economics and Public Policy

Course ID	Course title	ECTS	Department	Faculty
Geo 401	Economic Geology	5	Geology	Science
UNC 321	Project management	5	All	Energy Engineering

CONCENTRATION AREA 3: Climate Change, Science and Technology

Course ID	Course title	ECTS	Department	Faculty
ENV 114	Fish adaptation and climatic change	5	General	Fish and fisheries technology
Geo 447	Paleoecology Course	5	Geology	science
BOT 452	Flora	5	Botany	science
BOT 451	Plant community	5	Botany	Science
BOT 214	Plant Ecology	5	Botany	Science
BOT 332	Ecology of Algae	5	Botany	science
PCR 123	Thermodynamics fundamentals	5	All	Energy Engineering
ENP 222	Heat and mass transfer	5	All	Energy Engineering
ENX 31x	Renewable energy resources	5	All	Energy Engineering
SEP 32x	Pollution	5	Mechanics	Energy Engineering
AQA 121	Statistical Biology and Experimental Design	5	Mathematics	Science
Geo 434	Environmental geology	5	Geology	Science
ENN 223	Energy conversion and utilization	5	All	Energy Engineering

HOW TO APPLY

Students must have completed at least one semester before applying to the CLIMASP Minor program. The application must be accompanied by an approval from the CLIMASP faculty advisor.

DEADLINES FOR REGISTRATION

Fall Semester: Saturday, Oct. 3

Spring Semester: Saturday, Feb. 6

FOR MORE INFORMATION

Please contact CLIMASP academic advisors:

- 1- **Dr. Adel Abdel-Faheem** **Project coordinator at Aswan University** Elafheem@aswu.edu.eg
(Faculty of Science)
- 2- **Dr. Waleed Abdel-Fadeel** **Faculty of Energy Engineering** wfadeel@yahoo.com

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