



University of
Jordan

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

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The Climate Change and Sustainability Policy (CLIMASP) minor at Jerash University is an interdisciplinary programme 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 Economics and Administrative Sciences, Faculty of Agriculture, Faculty of Arts and Faculty of Education 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 programme 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 recognised 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 transformatively 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
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I. CORE COURSES

CLIMASP Orientations	Course ID	Course title	ECTS***	Department	Faculty
Climate Change, Environment and Society	2305100	Introduction to Sociology	5	Sociology	Arts
Climate Change, Economics and Public Policy	1607100	International Political Economy*	5	Business Economy	Business
Climate Change, Economics and Public Policy	1607327	Environmental Economics**	5	Business Economy	Business
Climate Change, Science and Technology	0305100	Environment	5	Geology	Science

* To be taken by all the students except students of the School of Business

** To be taken just by the students of the School of Business

*** 3 Credit hours are equivalent to 5 ECTS

II. CAPSTONE COURSE

Course ID	Course title	ECTS	Department	Faculty
0832419	Practicum(2) classroom teacher	10	Curriculum and Instruction	Educational Sciences
0832499	Practicum(2) child education	10	Curriculum and Instruction	Educational Sciences
1600150	Community Service	5	Business Economics	Business
1607311	Scientific Research in Economics	5	Business Economics	Business
0904599	(Final Year) Project	5	Mechanical Engineering	Engineering and Technology
0905599	(Final Year) Project	5	Chemical Engineering	Engineering and Technology
0900500	Practical Training	5	Mechanical and Chemical Engineering	Engineering and Technology





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III. ELECTIVE COURSES

CONCENTRATION AREA 1: Climate Change, Environment and Society				
Course ID	Course title	ECTS	Department	Faculty
0802213	Basic Mathematical concepts and their teaching methods (1)	5	Curriculum and Instruction	Educational Sciences
0802303	Designing and Producing Instructional Materials	5	Curriculum and Instruction	Educational Sciences
0802313	Basic Mathematical concepts and their teaching methods (2)	5	Curriculum and Instruction	Educational Sciences
0802317	Child Computerized program	5	Curriculum and Instruction	Educational Sciences
0802391	Instructional Materials for Children	5	Curriculum and Instruction	Educational Sciences
0802414	Child Environmental Education	5	Curriculum and Instruction	Educational Sciences

CONCENTRATION AREA 2: Climate Change, Economics and Public Policy				
Course ID	Course title	ECTS	Department	Faculty
1607225	Industrial Economics	5	Department of Business Economics	Business
1607330	International Trade Theory	5	Department of Business Economics	Business
1607411	Contemporary Economic Issues	5	Department of Business Economics	Business
1607415	Economic development	5	Department of Business Economics	Business
1607421	Managerial Economics	5	Department of Business Economics	Business
1607431	International Finance	5	Department of Business Economics	Business
1607327	Environmental Economics	5	Department of Business Economics	Business

CONCENTRATION AREA 3: Climate Change, Science and Technology				
Course ID	Course title	ECTS	Department	Faculty
0904445	Air Conditioning (1)	5	Mechanical Engineering	Engineering and Technology
0904443	Thermal Power Plants	5	Mechanical Engineering	Engineering and Technology
0904554	Solar Energy	5	Mechanical Engineering	Engineering and Technology
0904453	Refrigeration Systems	5	Mechanical Engineering	Engineering and Technology
0904459	Energy Conversion	5	Mechanical Engineering	Engineering and Technology





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0904545	Internal Combustion Engines	5	Mechanical Engineering	Engineering and Technology
0905371	Fuel and Energy	5	Chemical Engineering	Engineering and Technology
0905471	Energy Conservation and Management	5	Chemical Engineering	Engineering and Technology
0905473	Environmental Engineering	5	Chemical Engineering	Engineering and Technology
0905474	Waste Water Treatment	5	Chemical Engineering	Engineering and Technology
0905475	Air Pollution	5	Chemical Engineering	Engineering and Technology
0905573	Solid Waste Management	5	Chemical Engineering	Engineering and Technology
0905542	Water Desalination	5	Chemical Engineering	Engineering and Technology

HOW TO APPLY

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

DEADLINES FOR REGISTRATION

FALL [27/Sep/2015] at registration, and [31/Oct/2015] with the advisor
SPRING [28/Jan/2015]

FOR MORE INFORMATION

Please contact CLIMASP academic advisors at each faculty:

Project coordinator at UJ

Faculty of Engineering & Technology
Faculty of Educational Sciences
The School of Business

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*The content of the flyer reflects the views of the authors, and the Commission cannot be held responsible for any use which may be made of the information.

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